

JBL Professional



JBL is the largest brand within Harman. JBL's home base is part of the Harman International Business Campus, located in Northridge in the San Fernando Valley of Los Angeles. The 44 acre site comprises the offices of JBL Professional, along with Harman Corporate Engineering activities and other corporate functions.

JBL Professional's transducer design and manufacturing processes including machining, diaphragm forming, wire milling, voice coil winding, finishing, assembly and testing are all carried out by dedicated, quality-oriented personnel.

JBL Professional loudspeaker enclosures are constructed from components produced in JBL's extensive wood mill. Automated equipment is used extensively for uniformity and efficiency. Innovative techniques in enclosure materials, construction and assembly methods are employed.

JBL Professional has the most rigorous standards for system power rating in the professional loudspeaker industry. Power testing of transducers is an ongoing activity at JBL Professional. Samples from all production lots are tested at full rated power to industry standards to ensure that they meet the rigid performance specifications set for them. This is the professional customer's assurance that JBL loudspeakers will continue to perform as expected in the most rigorous professional applications.



THE JBL STORY: 60 YEARS OF AUDIO INNOVATION

Celebrating sixty years of success in the speaker industry, this book offers details on the people and products that have made JBL famous. It features full-color photos, historical advertisements, and hundreds of diagrams and images, many taken right from JBL's archives. Topics include stories behind the development of innovative applications for consumer products, as well as systems installations for stadiums, tour sound, movie theaters, recording studios, and places of worship. In addition to the technical info that explains the innovation, this book covers the brilliant engineers, and colorful record producers, musicians and technicians who had the vision to pursue a "better way." Available at bookstores and on line.

Portable Products

Harman Pro Group | 2013

Section:

07

JBL
A HARMAN COMPANY

EON. PRX Series. JRX Series. STX Series. VRX Series.

With nearly one million EON's shipped and millions more passive and powered speakers delivered worldwide, JBL sets the standards for audio quality, ergonomics and reliability in portable PA. From the cost effectiveness of the JRX line, the simplicity of EON, to the groundbreaking line-array designs of the VRX, JBL's commitment to performance, value and experience are in full force when it comes to portable audio.

From Concerts to Clubs

Our passive system solutions like JRX, PRX400, STX and VRX incorporate the cabinet and driver technology developed specifically for Tour Sound, Cinema and Installed Sound markets. VRX900 and STX800 Series speakers deliver the power and performance you should expect from the highest quality, professional speaker systems. JBL's patented Differential Drive® speaker technology has reduced speaker weight dramatically while still maintaining the highest level of performance available from a portable PA speaker. And taking the lead from VRX900 and STX800 Series speakers, PRX400 delivers extraordinary sound quality, power handling and performance at an affordable price.

The Whole is Greater Than the Sum of the Parts

Our powered systems incorporate not only the proprietary JBL driver technologies, but integrate signal processing and amplifier technology from sister companies dbx® and Crown®. PRX600 Series offer stellar performance, tremendous utility and exceptional value in a light-weight, rugged package. VRX powered technology is commonly used in demanding situations where high-output and sonic integrity are critical factors in an audio system. And EON Series is the undisputed leader in portable, light-weight plastic enclosures.

JBL means "Portable Performance."

EON®

The Next Generation



For the past 16 years JBL has led the portable PA market with EON, the best selling powered speaker in professional audio history. Since 2008 this new generation continues the class-leading traditions of design, performance, and quality. Featuring three models in the EON500 series and two models in the EON300 series, EON delivers more power, portability, and versatility than any other speaker in its class, raising the bar dramatically for advanced powered loudspeaker systems, while retaining that signature JBL EON® sound.

Versatility

EON's flexible mounting capability, awesome power and extreme light weight set the new standard as the performance do-it-all system for gigging musicians, entertainers, presenters, touring bands and mobile DJ's. Main or monitor, pole or stand mounted, and even suspended, EON is right at home regardless of the venue or application. Audience expectations are high, and EON delivers.

Performance Refined

EON offers the highest power-to-weight ratio of anything in its class. Extend the low frequency performance of all EON systems with the EON518S. This subwoofer features an 18" JBL Differential Drive® low frequency driver with a massive 500 Watts of power in a compact package that is nearly half the weight of the competition.

High Quality Drivers

JBL's exclusive Differential Drive® technology ensures EON has more power and less weight. These patented low-frequency drivers use neodymium magnets and dual voice coils to perform better than conventional designs with less distortion and at a fraction of the weight. JBL's next-generation neodymium compression drivers deliver stunningly accurate high frequencies through a new 1" exit design.

Powered by Crown®

JBL and Crown® collaboration results in designs of unmatched integration and efficiency. At the heart of the 515XT's massive output is a Crown Class-D amplifier that delivers high volume, low distortion and continuous performance with superb headroom and power to spare.

Built-in Mixers

The innovative built-in 3 channel mixer on the EON515XT all but eliminates the need for an outboard mixer and is one of the keys to the EON's unmatched popularity. The professional plug-and-play architecture appeals to any artist that has to set up quickly and deliver professional sound. Line level and direct microphone input capability, user selectable EQ, plus a clever mix/loop function for adding additional EONs or sending sub-mixes, ensure EON delivers unmatched simplicity with plenty of expansion capability.

Coverage

JBL is constantly advancing waveguide technology to ensure that consistent, balanced sound reaches all of your audience clearly and intelligibly. The Next Generation EON full-range cabinets feature a new 100° H x 60° V asymmetrical design guaranteeing an exceptionally wide coverage pattern and lower distortion.



Portability

EON is synonymous with portability. One person can easily lift, load, and mount an EON system virtually anywhere. Deep-welled, full-size handles feature ergonomically designed grip points, while balanced weight distribution and composite enclosures make EON truly one of the lightest and easiest sound reinforcement systems to transport and setup.

Proven Reliability

JBL has drawn from over 60 years of world-class speaker design to develop the latest durable lightweight technologies. In addition to the legendary performance of JBL transducers, the new EON series incorporates special limiter circuitry that will protect the electronic components when driven hard, rigorously tested by the world-famous 100-hour torture test. Covered by a full metal grille with protective backing fitted to a robust composite shell, you can assure EON will stand up to the rigors of road abuse and deliver the performance you need every time.

EON® 500 Series

key features

- LIGHT WEIGHT FOR TRUE PORTABILITY
- COMFORTABLE GRIPS FOR EASY TRANSPORT
- BUILT-IN 3-CHANNEL MIXER (EON 510 & 515)
- DIFFERENTIAL DRIVE® LOW FREQUENCY TRANSDUCERS
- EFFICIENT CLASS-D DIGITAL AMPLIFIER TECHNOLOGY



EON515XT



EON510



EON518S

EON515XT

The **EON515XT** was engineered for durability, high performance and ease of use. We've extended the reach of the current EON technology by improving input sensitivity, lowering the noise floor, adding user selectable EQ control and re-voicing the system for peak performance and enhanced audio precision. The sturdy construction and superior ergonomic design will guarantee a lifetime of reliability and simplicity. Put it all together and the EON515XT is the toughest, smartest and most impressive EON ever.

EON510

The **EON510** is a 10-inch, two-way, powered, portable speaker system. Capable of reproducing full bandwidth sound at high levels it offers the additional utility of a 3 channel built-in mixer. The EON510 is comprised of a 254 mm (10 in) Differential Drive® woofer, a 25.4 mm (1 in) neodymium high frequency compression driver coupled to a 100° H by 60° V waveguide. Both components are driven by the discrete channels of a 280 watt Class-D integrated power amplifier. The input section contains all crossover functions, protection, and mixer functionality.

EON518S

The **EON518S** is an 18-inch, direct radiating, high performance powered compact subwoofer system designed to extend low frequency performance of any EON system. It also offers the convenience of an integrated crossover and stereo loop-thru capability. The EON518S is comprised of a 460 mm (18") Differential Drive® woofer driven by a 500 watt Class-D digital amplifier.

specifications

	EON510	EON515XT	EON518S
SYSTEM TYPE	Self-powered 10", two-way, bass-reflex design	Self-powered 15", two-way, bass-reflex design	Self-powered 18", bass-reflex design
FREQUENCY RANGE (-10dB)	58 Hz - 18.5 kHz (EQ in 'Flat' position)	39 Hz - 20 kHz	36 Hz - 130 Hz
COVERAGE PATTERN	100° H x 60° V nominal	100° H x 60° V nominal	120 Hz (HPF selectable on outputs)
CROSSOVER FREQUENCY	1.6 kHz	1.7 kHz	
SENSITIVITY			
MAXIMUM SPL	121 dB	132 dB	129 dB
SYSTEM POWER RATING	280 W continuous, 560 W peak	Crown Class-D 625 Watts (525 + 100)	500 W continuous, 1000 W peak
TRANSDUCERS: LF	1 x JBL 261F 254 mm (10 in)	1 x JBL 265F-1 380 mm (15 in)	1 x JBL 268G 460 mm (18") (4 ohm)
HF	1 x JBL 2414H-1 25.4 mm (1 in)	1 x JBL 2414H 25.4 mm (1 in)	
CONNECTORS: INPUT 3	Balanced XLR / 1/4 inch TRS combo jack	Balanced XLR / 1/4 inch combo jack with XLR loop through	Balanced XLRs with loop through (stereo) to balanced XLR satellite outputs. 1/4 inch speaker level input
INPUT 1 & 2 OUTPUT	1/4 inch TRS jack Balanced male XLR, +20 dBu (peak)	Balanced XLR / 1/4 inch TRS jack Balanced male XLR, +20 dBu (peak)	
SUSPENSION/MOUNTING	35 mm pole socket with stabilizing screw 3 x M10 suspension points 1 x M10	35 mm pole socket with stabilizing screw 4 x M10 suspension points 1 x M10 pull-back point	35 mm pole socket on top
DIMENSIONS (H x W x D)	490 x 315 x 262 mm 19.3 x 12.4 x 10.3 in	673 x 406 x 368 mm 26.5 x 16 x 14.5 in	595 x 569 x 652 mm 23.4 x 22.4 x 25.7 in
NET WEIGHT (each)	7.7 kg (17 lb)	14.8 kg (32.5 lb)	29.5 kg (65 lb)

EON® 300 Series

key features

- ▶ 15" LOW-FREQUENCY DRIVER WITH A 64MM 2-1/2" DIAMETER EDGE WOUND RIBBON VOICE COIL
- ▶ LIGHT WEIGHT FOR TRUE PORTABILITY
- ▶ 100° H x 60° V ASYMMETRICAL WAVEGUIDE FOR UNIFORM AUDIENCE COVERAGE
- ▶ EFFICIENT CLASS-D DIGITAL AMPLIFIER TECHNOLOGY (EON315)



EON305



EON315

EON changed the way people looked at portable PA well over ten years ago as the all-purpose solution for instant sound reinforcement no matter where you are. And now, EON300 series speakers puts the next generation of EON systems within reach of an even broader range of users, delivering the fundamental elements that make a speaker system an EON at an even more affordable price.

EON305

The **EON305** is a 15-inch, two-way, passive, portable speaker system. It is a light weight loudspeaker system capable of fullbandwidth reproduction at high levels. The EON305 is comprised of a 380 mm (15 in) JBL woofer, a 25.4 mm (1 in) neodymium high frequency compression driver coupled to a 100° H by 60° V waveguide. The system will handle 250 watts continuously and 1000 watts peak.

EON315

The **EON315** is a 15-inch, two-way, powered, portable speaker system. It is a complete self contained sound reinforcement system, capable of full-bandwidth reproduction at high levels with the added benefit of a microphone pre-amp enabling the direct connection of a dynamic microphone. The EON315 is comprised of a 380 mm (15 in) JBL woofer, a 25.4 mm (1 in) neodymium high frequency compression driver coupled to a 100° H by 60° V waveguide. Both components are driven by the discrete channels of a 280 watt Class-D integrated power amplifier. The input section contains all cross-over functions, protection, and system EQ functionality.

specifications

	EON305	EON315
SYSTEM TYPE	15", two-way, bass-reflex design	Self-powered 15", two-way, bass-reflex design
FREQUENCY RANGE (-10dB)	38 Hz - 20 kHz	38 Hz - 20 kHz (EQ in 'Flat' position)
COVERAGE PATTERN	100° H x 60° V nominal	100° H x 60° V nominal
CROSSOVER FREQUENCY	1.9 kHz	1.8 kHz
SENSITIVITY	98 dB (1w/1m)	127 dB
MAXIMUM SPL	128 dB	
SYSTEM POWER RATING	250 W continuous, 500 W program, 1000 W peak	280 W continuous, 560 W peak
TRANSDUCERS: LF	1 x M115-8 380 mm (15 in) woofer	1 x M115-2 380 mm (15 in)
HF	1 x JBL 2414H-1 25.4 mm (1 in)	1 x JBL 2414H-1 25.4 mm (1 in)
CONNECTORS: INPUT	Parallel Neutrik® NL4 / 1/4" combo connectors	Balanced XLR / 1/4 inch TRS combo jack
OUTPUT		Balanced male XLR, +20 dBu (peak) o/p level
SUSPENSION/MOUNTING	35 mm pole socket with stabilizing screw 4 x M10 suspension points 1 x M10 pull-back point	35 mm pole socket with stabilizing screw 4 x M10 suspension points 1 x M10 pull-back point
DIMENSIONS (H x W x D)	685 x 438 x 366 mm 27 x 17.3 x 14.4 in	685 x 438 x 366 mm 27 x 17.3 x 14.4 in
NET WEIGHT (each)	15 kg (33 lb)	15.9 kg (35 lb)

PRX600

S E R I E



PRX600 Series

Self-Powered Loudspeakers - compact, ultra-lightweight systems ... performance you can trust.

The PRX 600 Series represents an evolutionary step in the efficient use of amplifier power, rugged durability and enhanced versatility in a self-powered loudspeaker. The speakers were designed from the ground up to perform in the real world of sound reinforcement where challenging audio environments, high ambient noise levels and loud volumes are the norm. And we've built these speakers to last a lifetime using our tested technology that's reliable and trustworthy. Knowing you can rely on your system to deliver everything you need gives you the freedom to deliver your best. That's performance you can trust. With the PRX600 Series, as always, JBL delivers.

key features

PRX600 Series

- BUILT-IN MULTI-CHANNEL CROWN® CLASS-D DIGITAL AMPLIFIER
- FULLY-FEATURED INPUT SECTION WITH PROPRIETARY DSP
- USER SELECTABLE SYSTEM EQ
- EIGHT (8) M10 SUSPENSION POINTS AND ONE (1) PULL-BACK POINT FOR EASY INSTALLATION
- JBL DIFFERENTIAL DRIVE® WOOFERS
- NEODYMIUM COMPRESSION DRIVERS



The PRX 600 Series is a platform technology that allows you to create the system you need from an intelligent range of models. While each model was designed to excel at a specific application, the PRX Series integrate seamlessly with one another offering a multitude of choices when tailoring a system to fit your specific needs.

Whether you need a single speaker on a stand for public address situations, a full-range stereo set up with two top cabinets and a sub-woofer for live performance

or DJ applications, or multiple cabinets for a scalable, highly professional sound reinforcement situation, the PRX600 Series offers the solutions. In fact, you can even suspend any of the top cabinets for use in a commercial installation or House of Worship. If versatility, scalability, portability and affordability are what you're looking for in a system, PRX 600's are the intelligent choice.



PRX612M

12" 2-WAY MULTIPURPOSE SELF-POWERED SOUND REINFORCEMENT SYSTEM

PRX612M is the most compact and versatile speaker in the PRX600 Series line. It has been designed to deliver superior performance for its weight and size as both a stage monitor and a front of house main PA. Two user selectable EQ settings are provided to optimize the system for either application. With a dual socket pole mount, the PRX612M is a perfect match with either the PRX618S subwoofer or the PRX618S-XLF subwoofer. Additionally the PRX612M's microphone input allows for instantaneous use as convenient, single source PA.

PRX615M

15" 2-WAY MULTIPURPOSE SELF-POWERED SOUND REINFORCEMENT SYSTEM

The 2-way 15" is the most recognizable form of a portable PA loudspeaker, the perfect balance between size and performance. Due to the unique shape of the cabinet, the **PRX615M** can double as a stage monitor or a front of house main speaker and for applications requiring full bandwidth sound reproduction, using only a pair of speakers, the PRX615M delivers the optimum balance. For live music, recorded music playback and speech the user has the option of tailoring the EQ, 'flat' for speech intelligibility or use with a sub, and 'monitor' for enhanced feedback suppression. As with the PRX612M, a microphone can be directly connected to the speaker input for quick on-the-fly PA applications.

PRX625

DUAL 15" 2-WAY SELF-POWERED SOUND REINFORCEMENT SYSTEM

If a simple set-up is required and full bandwidth output at high levels is a must, then the **PRX625** is most likely the optimum solution. Dual 15" drivers, coupled with the Crown class D amplifiers offer tremendous punch and depth at heart stopping volume levels – maximum levels are rated at 139 db! As with the entire PRX full-range models user selectable EQ is provided in addition to a direct microphone input option.

PRX635

15" 3-WAY SELF POWERED SOUND REINFORCEMENT SYSTEM

The **PRX635** offers the highest level of performance in the PRX600 Series that can be mounted on a pole. It is a 3-way configuration and by design, it is the most accurate in the PRX600 Series. With a horn loaded midrange, pattern control is maintained to a much lower frequency resulting in exceptional clarity and uniform sonic projection over the defined coverage area. Ideally suited to applications where the program material, live or pre-recorded, has many subtle nuances that are critical to the success of the performance. As with all the full-range PRX600 Series systems, two EQ selections can be used to optimize the system for the program material and/or environment. The input section also accommodates either Line or Mic/Instrument level inputs.

PRX618S

18" SELF POWERED SUBWOOFER SYSTEM

Compact and powerful, the **PRX618S** offers the performance of an 18" subwoofer in a package not much larger than a typical 15" sub. With a pole receptacle (that accepts a SS3-BK) on the top panel and integrated stereo pass-thru, with digital cross-over, this is the perfect compliment to the PRX600 full-range systems. Configured with a PRX612M or PRX615m; the result is a highly transportable, high performance sub-satellite system. The addition of a polarity reverse option further enables system optimization.

PRX600S-XLF

18" SELF POWERED EXTENDED LOW FREQUENCY SUBWOOFER SYSTEM

Featuring an extended low frequency response, this high performance 18" subwoofer system utilizes a 700 watt Crown® class D amplifier in addition to JBL's Dual-Bridge Technology™, an 18" 2268FF dual voice coil Differential Drive® woofer – technology you need when you want to move serious air! The **PRX618S – XLF** also features a DSP driven input section with selectable crossover, polarity reverse and loop-through capability for "smart patching" all housed in a rugged, DuraFlex™ covered plywood enclosure with foam backed steel grille, M20 pole mount and non-skid rubber feet.

PRX600

S E R I E S



PRX612M

PRX615M



PRX625



PRX635



PRX618S



PRX618S-XLF

PRX615M



PRX612M



specifications

	PRX612M	PRX615M	PRX625	PRX635	PRX618S	PRX618S-XLF
SYSTEM TYPE	Self Powered 12" Two-way Bass-reflex	Self Powered 15" Two-way Bass-reflex	Self Powered Dual 15" Two-way Bass-reflex	Self Powered 15" Three-way Bass-reflex	Self Powered 18" Bass-reflex	Self Powered 18" Bass-reflex
MAXIMUM SPL OUTPUT	134 dB (full range) peak 133 dB (monitor) peak	135 dB (full range) peak 134 dB (monitor) peak	139 dB peak	135 dB peak	129 dB peak	133 dB peak
FREQ. RANGE (-10 dB) FREQ. RESPONSE (±3 dB)	50 Hz - 19.5 kHz 60 Hz - 17.5 kHz	45 Hz - 19 kHz 54 Hz - 18 kHz	40 Hz - 19.5 kHz 55 Hz - 17.5 kHz	41 Hz - 19 kHz 53 Hz - 18 kHz	41 Hz - 130 Hz 50 Hz - 100 Hz	30 Hz - 105 Hz 39 Hz - 93 Hz
INPUT CONNECTORS	Balanced XLR / 1/4 in combo jack w/ XLR loop through	Balanced XLR / 1/4 in combo jack w/ XLR loop through	Balanced XLR / 1/4 in combo jack w/ XLR loop through	Balanced XLR / 1/4 in combo jack w/ XLR loop through	Balanced XLR w/ XLR loop thru, 1/4 in speaker level input (mono)	Balanced XLR / 1/4 in combo w/ XLR loop through (stereo)
COVERAGE PATTERN	90° x 50° nominal	90° x 50° nominal	90° x 50° nominal	90° x 50° nominal	90° x 50° nominal	90° x 50° nominal
AMPLIFIER DESIGN	Crown Class D	Crown Class D	Crown Class D	Crown Class D	Crown Class D	Crown Class D
SYSTEM POWER RATING	1,000 W (2 x 500)	1,000 W (2 x 500)	1,500 W (3 x 500)	1,500 W (3 x 500)	600 W	1,000 W (2 x 500)
LF DRIVER	1 x JBL 262F-1 305 mm (12 in) Differential Drive®	1 x JBL 265F-1 380 mm (15 in) Differential Drive®	2 x JBL 265F-1 380 mm (15 in) Differential Drive®	1 x JBL 265F-1 380 mm (15 in) Differential Drive®	1 x JBL 268G 460 mm (18 in) Differential Drive®	1 x JBL 2268FF 460 mm (18 in) Differential Drive®
MID DRIVER				1 x JBL 195H 165 mm (6.5 in) horn loaded transducer		
HF DRIVER	1 x JBL2408H-1 37.5 mm (1.5 in)	1 x JBL2408H-1 37.5 mm (1.5 in)	1 x JBL2408H-1 37.5 mm (1.5 in)	1 x JBL2414H-1 25.4 mm (1 in)		
ENCLOSURE	Asymmetrical, 18mm plywood	Asymmetrical, 18mm plywood	Trapezoidal, 18mm plywood	Trapezoidal, 18mm plywood	Rectangular, 18mm plywood	Rectangular, 18mm plywood
SUSPENSION/MOUNTING	Dual 36 mm pole socket 8 x M10 suspension points 1 x M10 pull-back point	Dual 36 mm pole socket 8 x M10 suspension points 1 x M10 pull-back point	Dual 36 mm pole socket 8 x M10 suspension points 1 x M10 pull-back point	Dual 36 mm pole socket 8 x M10 suspension points 1 x M10 pull-back point	Dual 36 mm pole socket 8 x M10 suspension points 1 x M10 pull-back point	Dual 36 mm pole socket 8 x M10 suspension points 1 x M10 pull-back point
FINISH	Obsidian DuraFlex™	Obsidian DuraFlex™	Obsidian DuraFlex™	Obsidian DuraFlex	Obsidian DuraFlex	Obsidian DuraFlex
DIMENSIONS (H x W x D)	592 x 353 x 340 mm 25.3 x 13.9 x 13.4 in	660 x 429 x 414 mm 26 x 16.9 x 16.3 in	1053 x 430 x 413 mm 41.47 x 16.9 x 16.27 in	921 x 429 x 413 mm 36.29 x 16.9 x 16.27 in	685.8 x 530.9 x 614.7 mm 27 x 20.9 x 24.2 in	685.8 x 530.9 x 716.3 mm 27 x 20.9 x 28.2 in
NET WEIGHT	15.6 kg (34.5 lb)	19.7 kg (43.5 lb)	27.2 kg (60 lb)	27.2 kg (60 lb)	32.2 kg (70.5 lb)	37 kg (81.5 lb)
GROSS WEIGHT	19.2 kg (42.5 lb)	24.2 kg (53.5 lb)	29.2 kg (64.5 lb)	29.2 kg (64.5 lb)	37.2 kg (82 lb)	42.3 kg (93 lb)

key features

JRX100 Series

- PROGRESSIVE TRANSITION™ WAVEGUIDES FOR WELL-CONTROLLED COVERAGE, LOW DISTORTION, AND SMOOTH RESPONSE
- SONICGUARD™ HIGH FREQUENCY DRIVER PROTECTION

- ACOUSTICALLY SUPERIOR 3/4" MDF ENCLOSURE CONSTRUCTION FOR RUGGEDNESS AND BETTER LOW END PERFORMANCE
- TOUGH, NON-RESONANT HANDLES AND 18 GAUGE STEEL GRILLE

JRX118S
JRX118SP



JRX115



JRX100 JRX125

JRX112M



JRX100 delivers the performance and prestige of JBL at an affordable price point. Everything that makes a speaker perform and sound its best is included and the things that don't were eliminated. JRX100 delivers unprecedented value.

JRX115, JRX115i

The **JRX115** is a trapezoidal, 15" speaker system for use in live sound, dance music, and speech reinforcement. The speaker includes a dual-angle, 35 mm pole mount socket as well as Neutrik® SpeakOn® and 1/4" input connectors. Installation version also available with M10 suspension points.

JRX125

The **JRX125** is a "quasi three-way" design, with the upper woofer covering both lows and mids. The bottom woofer uses a lower crossover frequency and covers only lows, acting as a built-in subwoofer. It offers the extra low-end of a dual 15" speaker while maintaining the superior mid-frequency performance of a single driver system.

JRX112M, JRX112Mi

The **JRX112M** is a compact and low-profile stage monitor with optimized performance in the critical mid-range. It also includes JBL's dual-angle pole socket for use as a front-of-house speaker. Installation version also available with M10 suspension points.

JRX118S

The **JRX118S** subwoofer is driven by a massive JBL 18" woofer with a cast frame and 3" voice coil. We've even created settings for the dbx DriveRack® PA Loudspeaker Controller.

JRX118SP

The **JRX118SP** is a self-powered version of the JRX118S. It includes a specially designed amplifier with 500 watts (peak) and 300 watts (continuous) power output. This subwoofer features dual inputs with balanced XLR connectors, built-in stereo crossover network, and a peak limiter to protect the amplifier and speaker from clipping.

specifications

	JRX115, JRX115i	JRX125	JRX112M, JRX112Mi	JRX118S	JRX118SP
SYSTEM TYPE	Two-Way Speaker	Dual-15" Two-Way Speaker	Two-Way Stage Monitor	18" Subwoofer	18" Powered Subwoofer
FREQUENCY RANGE (-10 dB) ¹	38 Hz - 16 kHz	35 Hz - 16 kHz	60 Hz - 16 kHz	38 Hz - 300 Hz	38 Hz - 300 Hz
FREQUENCY RESPONSE (±3 dB) ¹	50 Hz - 12.5 kHz	45 Hz - 12 kHz	70 Hz - 12 kHz	55 Hz - 300 Hz	55 Hz - 300 Hz
SENSITIVITY: 1 W, 1 m	98 dB SPL	100 dB SPL	99 dB SPL	96 dB SPL	96 dB SPL
NOMINAL IMPEDANCE	8 ohms	4 ohms	8 ohms	4 ohms	4 ohms
POWER CAPACITY ²	250 watts	500 watts	250 watts	350 watts	350 watts
PEAK POWER CAPACITY ²	1000 watts	2000 watts	1000 watts	1400 watts	1400 watts
MAXIMUM SPL	128 dB	133 dB	129 dB	127 dB	127 dB
NOMINAL DISPERSION	90° x 50°	90° x 50°	90° x 50°		
COMPONENTS	LF: JBL M115-8A HF: JBL 2412 1 in exit compression driver on Progressive Transition™ Waveguide	LF: JBL M115-8A x 2 HF: JBL 2412 1 in exit compression driver on Progressive Transition Waveguide	LF: JBL M112-8 HF: JBL 2412 1 in exit compression driver on Progressive Transition Waveguide	LF: JBL 2043-G	LF: JBL 2043-G
INPUT CONNECTORS	Neutrik® SpeakOn® NL-4 (x1); 1/4 in TS phone jack (x1); parallel	Neutrik SpeakOn NL-4 (x1); 1/4 in TS phone jack (x1); parallel	Neutrik SpeakOn NL-4 (x1); 1/4 in TS phone jack (x1); parallel	Neutrik SpeakOn NL-4 (x2); 1/4 in TS phone jack (x1); parallel	XLR/M x 2 (line level, balanced); 1/4 in TS phone jack x1 (spkr level)
OUTPUT CONNECTORS					XLR/F x 2 (Selectable, Thru or Hi Pass)
DIMENSIONS (H x W x D)	699 x 460 x 432 mm 27.5 x 18.1 x 17 in	1092 x 464 x 426 mm 43 x 18.3 x 16.8 in	584 x 399 x 325 mm 23 x 15.7 x 12.8 in	605 x 508 x 551 mm 23.8 x 20 x 21.7 in	605 x 508 x 592 mm 23.8 x 20 x 23.3 in
NET WEIGHT (each)	27.4 kg (61 lb)	42.6 kg (94 lb)	19.5 kg (43 lb)	32.2 kg (71 lb)	40.4 kg (89 lb)

¹ "Frequency Range" and "Frequency Response" are based on half-space response.

² "Power Capacity" and "Peak Power Capacity" ratings are based on the average and peak power handling capacity of product samples subjected to a 100 hour power test of the system design using IEC filtered random noise with a crest factor of 6 dB.

PRX400 Series

PRX400 passive speakers were designed to provide the sensitivity, frequency response and power handling needed for almost any professional audio environment while still being reasonably priced. Whether you use a powered mixer or an equipment rack full of amps and signal processing, PRX400 passive speakers deliver the sound power and bandwidth necessary to make loud music sound natural and even quiet speech intelligible.

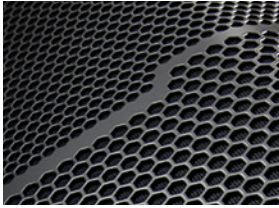
PRX400 passive speakers are comprised of four tested JBL components and feature professional connectivity via Neutrik® Speakon combination connectors. PRX400 cabinets are artfully constructed from an 18mm Birch/Poplar multi-laminate hardwood covered in highly resilient DuraFlex™ and feature rugged 16 gauge steel grilles. All full range models utilize twelve M10 suspension points for safe deployment in light duty installations. With three 2-way designs and an 18" sub-woofer, PRX400 passive series tackle tough jobs affordably and professionally.

At Home Anywhere

Perfect for musicians, DJ's, House of Worship, public address, or even suspended in a commercial environment like a school or nightclub, PRX400 speakers were crafted to address a multitude of demanding audio environments.

The PRX412M and PRX415M can be used as mains or monitors and with the addition of the PRX418 subwoofer you'll have a sub/sat system capable of generating 135 dB of full-range, high quality audio. The PRX425 dual 15" two-way is the perfect choice for DJ's and bands who need low-frequency extension from the convenience of a stand-alone cabinet. Installation versions of the PRX412M and PRX415M in white (-WH) are also available.





Grille | Rugged 16-gauge grilles provide serious protection for the JBL tour tested components. Backed with acoustically transparent cloth the grilles are designed for sonic accuracy, structural strength and professional good looks.



Suspension Points | Permanently mounting the PRX400 is easily managed via twelve built-in M10 suspension points constructed from 14 gauge steel. They have been tested with a yield-strength of 1000 pounds each ensuring a safe and secure mount.



Handles | Ergonomically engineered handles are made from light-weight glass-filled nylon for added strength and durability. Intelligently engineered for both balance and comfort in the hand, they make carrying, mounting and positioning each enclosure easily managed in any situation.



Pole Sockets | Built in dual-angle pole mount sockets allow the PRX412M and PRX415M to be stand mounted at different angles to accommodate the best audience coverage pattern. With a 10° down angle, the speaker can be directed down toward your audience, enhancing sound coverage and clarity.

PRX400

S E R I E S



PRX412M

PRX415M

PRX425

PRX418S

specifications

PRX412M, PRX412M-WH

SYSTEM TYPE	12" Two-Way Stage Utility/Monitor
FREQUENCY RANGE ¹	50 Hz - 20 kHz (-10 dB)
FREQUENCY RESPONSE ¹	62 Hz - 19 kHz (± 3 dB)
SENSITIVITY: 1 W, 1 m	95 dB SPL
NOMINAL IMPEDANCE	8 ohms
POWER RATING	300 W / 600 W / 1200 W, 2 hrs ²
Continuous/Program/Peak	
MAXIMUM SPL @ 1 m	126 dB SPL peak ⁴
COVERAGE PATTERN	90° x 50° nominal
TRANSDUCERS: LF	1 x JBL MB112-8 305 mm (12 in)
HF	1 x JBL 2414H-C 25 mm (1 in)
FINISH	DuraFlex™ Black, White available
INPUT CONNECTORS	Parallel Neutrik® Speakon® NL-2 / ¼" phone combo jacks
DIMENSIONS (H x W x D)	574 x 353 x 399 mm 22.6 x 13.9 x 15.7 in
NET WEIGHT (each)	16 kg (35.0 lb)

¹ Based on *n* acoustical loading.
² IEC standard, full bandwidth pink noise

PRX415M, PRX415M-WH

SYSTEM TYPE	15" Two-Way Stage Utility/Monitor
FREQUENCY RANGE ¹	55 Hz - 19 kHz (-10 dB)
FREQUENCY RESPONSE ¹	66 Hz - 16 kHz (± 3 dB)
SENSITIVITY: 1 W, 1 m	98 dB SPL
NOMINAL IMPEDANCE	8 ohms
POWER RATING	300 W / 600 W / 1200 W, 2 hrs ²
Continuous/Program/Peak	
MAXIMUM SPL @ 1 m	129 dB SPL peak ⁴
COVERAGE PATTERN	90° x 50° nominal
TRANSDUCERS: LF	1 x JBL M115-8A 380 mm (15 in)
HF	1 x JBL 2414H-C 25 mm (1 in)
FINISH	DuraFlex™ Black, White available
INPUT CONNECTORS	Parallel Neutrik® Speakon® NL-2 / ¼" phone combo jacks (x2)
DIMENSIONS (H x W x D)	650 x 429 x 457 mm 25.6 x 16.9 x 18 in
NET WEIGHT (each)	21.0 kg (46 lb)

³ 30 Hz to 130 Hz pink noise with 6 dB crest factor for specified period

PRX425

SYSTEM TYPE	Dual 15" High-Power, Two-Way Speaker
FREQUENCY RANGE ¹	48 Hz - 19 kHz (-10 dB)
FREQUENCY RESPONSE ¹	61 Hz - 16 kHz (± 3 dB)
SENSITIVITY: 1 W, 1 m	100 dB SPL
NOMINAL IMPEDANCE	4 ohms
POWER RATING	600 W / 1200 W / 2400 W, 2 hrs ²
Continuous/Program/Peak	
MAXIMUM SPL @ 1 m	134 dB SPL peak ⁴
COVERAGE PATTERN	90° x 50° nominal
TRANSDUCERS: LF	2 x JBL M115-8A 380 mm (15 in)
HF	1 x JBL 2414H-C 25 mm (1 in)
FINISH	DuraFlex™ Black
INPUT CONNECTORS	Parallel Neutrik® Speakon® NL-2 / ¼" phone combo jacks (x2)
DIMENSIONS (H x W x D)	1044 x 429 x 521 mm 41.1 x 16.9 x 20.5 in
NET WEIGHT (each)	33.5 kg (74 lb)

⁴ Calculated based on power rating and sensitivity

PRX418S

SYSTEM TYPE	18" High-Power Subwoofer
FREQUENCY RANGE ¹	35 Hz - 250 Hz (-10 dB)
FREQUENCY RESPONSE ¹	52 Hz - 120 Hz (± 3 dB)
SENSITIVITY: 1 W, 1 m	95 dB SPL; 100 dB SPL
NOMINAL IMPEDANCE	8 ohms
POWER RATING	800 W / 1600 W / 3200 W, 2 hrs ³
Continuous/Program/Peak	
MAXIMUM SPL @ 1 m	130 dB SPL peak ⁵
COVERAGE PATTERN	90° x 50° nominal
TRANSDUCERS: LF	1 x JBL Selenium SWS1000W 457 mm (18 in)
HF	
FINISH	DuraFlex™ Black
INPUT CONNECTORS	Two Neutrik® Speakon® NL-2 / ¼" TS phone combo jacks
DIMENSIONS (H x W x D)	678 x 536 x 615 mm 26.7 x 21.1 x 24.2 in
NET WEIGHT (each)	36 kg (79 lb)

⁵ Calculated on half space condition

STX800® Series



The STX800 Series embodies the Total Performance principle that drives JBL's development of audio products that make a real difference in the world of professional audio. Their superb sonic performance is based on time tested JBL technology: high power handling transducers that deliver extremely low distortion, precision waveguides for precise pattern control, and intelligent cabinet architecture that is engineered for easy handling, minimal space displacement and rugged transport. And the appearance was sculpted to complement our high end VTX touring systems as well as our current PRX portable PA offerings. But it doesn't stop there... STX is VTX Series compliant with tunings available in Performance Manager™ and Crown® ITHD power amplifiers.

The STX800 Series was designed to bridge the space between light-duty portable PA speakers and flown full-size line array tour sound systems. Our goals at the inception of this project were simple:

- Offer a high performance, high density system solution in a truck-pack friendly format
- Develop concert-worthy floor monitors and side fills that could affordably complement any touring sound system
- Deliver an affordable, great sounding subwoofer that could reproduce true low frequency at elevated sound pressure levels

With four full-range systems and two subwoofers, the STX Series can cover just about any professional application. As with all JBL sound reinforcement products, the technology of the STX Series is designed from the ground up employing the best componentry JBL has to offer in products of this class. STX800 speakers feature the latest evolution of our Vented Gap Cooling: Super Vented Gap Technology. Building on the advantages of VGC - low power compression, low distortion, high power handling, lower weight and smoother response - SVG transducers attain higher power handling capabilities due to more effective heat sinking, with minimal dynamic compression and magnet topology enhancements for even lower distortion.

Whether you're in need of ancillary speakers for a full-blown tour sound system, ground-stacking for a live concert performance, installing speakers in dance clubs or performance venues, touring clubs with your band, or you are a performing mobile DJ, STX800 Series is the smart choice.



CMCD™ Cone Midrange Compression Driver:

The STX835 features JBL's patented CMCD Cone Midrange Compression Driver technology that provides very low mid-range distortion, increased sensitivity, extended bandwidth and improved phase coherence. Coupled to the CMCD is JBL's Progressive Transition™ (PT) waveguide providing optimal array ability and predictable acoustic performance in real world applications.

High-Frequency Compression Drivers: High frequencies are handled by JBL 2432H 3" voice-coil or 2453H 4" voice-coil, titanium diaphragm, neodymium compression drivers. In addition to the weight reduction provided by neodymium, the large voice coils and diaphragms in these drivers are capable of handling high power levels with reduced distortion and increased phase coherence resulting in smooth, crystal clear high frequencies.

Patented Progressive Transition (PT)

Waveguides: High frequency drivers use JBL's patented Progressive Transition Waveguides which offer dramatically advanced constant beamwidth and directivity, lower distortion, and overall smooth frequency response free of high-Q peaks. Wide coverage angles are achieved without compromise and harmonic distortion is minimized to allow maximum SPL capability of the compression drivers without harshness.

Bi-Amp or Full-Range Operation: All STX800 two and three-way models may be operated full-range or bi-amplified. The selection is made by means of a high-current, recessed switch mounted on the input plate. The same switch arrangement is used on the subwoofer to select ± 1 or ± 2 operation.

100 Hour Torture Test: Like all JBL Professional products, the STX Series is brutalized in JBL's speaker torture test. Unique in the industry, the JBL torture extended life test submits each component and the complete system to 100 hours of continuous, high level input, ensuring that your system will deliver extraordinary sound even after years of tough handling and thousands of hours of performance.

Enclosures: The STX Series multi-ply enclosures are manufactured with precision CNC engineering techniques that allow precise tolerances and consistent production. All STX enclosures are constructed from top quality birch/poplar plywood with extensive use of internal braces and bulkheads reducing acoustically harmful internal resonances. Coated in JBL's rugged DuraFlex™ finish, they will stand up to years of real world abuse. All speakers feature road tough 14-gauge steel grilles lined with acoustically transparent cloth to provide minimal acoustic interference and maximize driver protection.

Suspension: All full range STX800 enclosures (except the STX812M monitor) include multiple M10 rigging points for fast, safe and secure suspension.

Seamless Integration: STX800 Series is compatible with Crown® Audio VRack, with V5 Level processing, ensuring that STX Series enclosures are optimally powered and processed. There is no need for laborious rack building, no chance that a component might be improperly connected, and a dramatically lower chance of connection failure. VRack also ensures compatibility when integrating STX Series enclosures with a VTX Line Array system.

JBL HiQnet® Performance Manager™ Software:

The STX Series integrates with JBL HiQnet Performance Manager which guides the system design, configuration and control process in a user friendly fashion much like a simple step-by-step wizard. And since Performance Manager is compatible with VTX Line Array systems, integrating STX enclosures is managed in an efficient and intelligent fashion. All test, tuning and calibration control interfaces are embedded eliminating the need to design control panels and the dedicated "show mode" provides all the monitoring and control needed to run a live performance.

STX812M

Designed specifically to be a high performance 12" two-way floor monitor, it can also do double duty as a utility speaker for use on a tripod stand or over a subwoofer, utilizing a single-position pole mount. A 70 degree by 70 degree waveguide is utilized for precise coverage.

STX815M

A single 15" lightweight two-way system designed to function as a high-power handling, FOH loudspeaker system or as an extended range floor monitor, it offers an extremely high level of performance either ground, pole or stand mounted. A 70 degree by 70 degree coverage angle for focused directivity control.

STX825

A dual 15" two-way speaker designed for maximum impact, portability and ease of use. With a wide frequency range and broad 90 degree by 50 degree coverage angles, this speaker is ideal for bands or DJ's as their primary PA, use as a side-fill on a concert stage, or as an install speaker in a dance club or performance venue.

STX835

A slot-loaded dual 15" three-way system with horn-loaded mid and high sections, designed for full-range use in stand-alone applications or for use in high performance environments as the premier ground stack passive top box. Designed to be placed over the STX828, this cabinet can be used in multiples in a high density situation; the STX835 can deliver amazing sound clarity at high SPL's. The STX835's 60 degree by 40 degree mid- and high-frequency waveguides allows two cabinets to be played for wide angle coverage.

STX818S

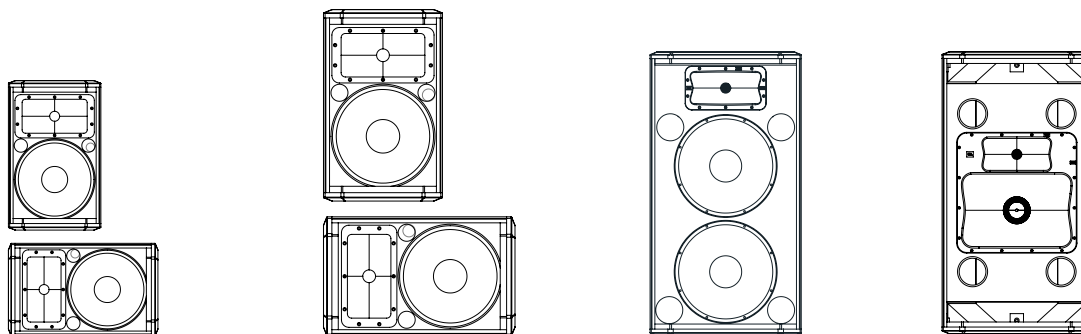
A single 18" compact high power subwoofer system in a front-loaded, vented enclosure designed for minimum frontal area provides 1,000 watts of continuous pink noise power handling, 2 kW program and 4 kW peak. The STX818S also comes equipped with a top-mounted M20 pole-mount and an optional wheel kit.

STX828S

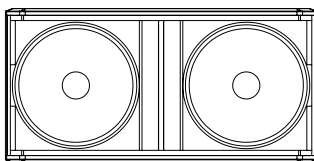
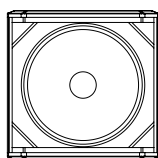
A dual 18" high power subwoofer system in a front-loaded, vented enclosure designed for maximum low-frequency performance. The STX828 has an optional wheel kit. Two drivers give 2,000 watts of continuous pink noise power handling, 4kW program and 8 kW peak.

key features

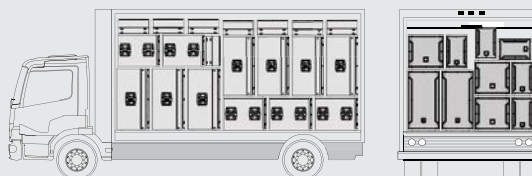
- BI-AMPLIFIED OR FULL-RANGE PASSIVE OPERATION
- POLE SOCKET FOR APPLICATIONS REQUIRING POLE OR TRIPOD MOUNTING
- HIGH POWER HANDLING, LOW DISTORTION VGC™ LF DRIVERS
- RUGGED DURAFLEX™ COATED ENCLOSURE SIZED TO BE TRUCK PACK FRIENDLY
- 14-GAUGE STEEL GRILLE LINED WITH ACOUSTICALLY TRANSPARENT CLOTH



	STX812M	STX815M	STX825	STX835
SYSTEM TYPE	12" Two-Way, Bass-Reflex, Stage Monitor/Utility	15" Two-Way, Bass-Reflex, Stage Monitor/Utility	Dual 15" Two-Way, Bass-Reflex	Dual 15" Three-Way with Horn-Loaded MF/HF section, slot-loaded LF
FREQUENCY RANGE (-10 dB)	50 Hz-20 kHz	41 Hz-20 kHz	34 Hz-20 kHz	32 Hz-20 kHz
FREQUENCY RESPONSE (±3 dB)	75 Hz-20 kHz	55 Hz-20 kHz	42 Hz-19 kHz	43 Hz-20 kHz
COVERAGE PATTERN	70° × 70° nominal	70° × 70° nominal	90° × 50° nominal	60° × 40° nominal
SENSITIVITY: 1 W, 1 m	95 dB	96 dB	98 dB	96 dB
POWER RATING:² (Continuous/Program/Peak)	800 W / 1600 W / 3200 W	800 W / 1600 W / 3200 W	1600 W / 3200 W / 6400 W	1600 W / 3200 W / 6400 W
RATED MAXIMUM SPL³	130 dB SPL Peak	131 dB SPL Peak	136 dB SPL Peak	134 dB SPL Peak
NOMINAL IMPEDANCE	8 ohms	8 ohms	4 ohms	4 ohms
INPUT CONNECTORS	Two NL4	Two NL4	Two NL4	Two NL4
OPERATIONAL MODES	Full Range/Bi-Amp	Full Range/Bi-Amp	Full Range/Bi-Amp	Full Range/Bi-Amp with internal passive mid-high crossover network
DIMENSIONS (H x W x D)	571 x 355 x 264 mm (22.5 x 13.4 x 10.4 in)	721 x 436 x 329 mm (28.4 x 17.2 x 13.0 in)	1066 x 568 x 573 mm (42.0 x 22.4 x 22.6 in)	1066 x 568 x 573 mm (42.0 x 22.4 x 22.6 in)
NET WEIGHT (each)	19 kg (42 lb)	26 kg (58 lb)	51 kg (112 lb)	57 kg (126 lb)
SUSPENSION/MOUNTING	N/A	Twelve M10 Suspension Points	Twelve M10 Suspension Points	Twelve M10 Suspension Points
ACCESSORIES	STX812M-YK Suspension/Mounting Yoke	Eyebolt Kit	Eyebolt Kit	Eyebolt Kit



	STX818S	STX828S
SYSTEM TYPE	Single 18" Bass Reflex	Dual 18" Bass Reflex
FREQUENCY RANGE (-10 dB)	35 Hz-250 Hz	32 Hz-250 Hz
FREQUENCY RESPONSE (±3 dB)	40 Hz-120 Hz	37 Hz-120 Hz
COVERAGE PATTERN	N/A	N/A
SENSITIVITY: 1 W, 1 m	96 dB	99 dB
POWER RATING:² (Continuous/Program/Peak)	1000 W / 2000 W / 4000 W	2000 W / 4000 W / 8000 W
RATED MAXIMUM SPL³	132 dB SPL Peak	138 dB SPL Peak
NOMINAL IMPEDANCE	8 ohms	4 ohms
INPUT CONNECTORS	Two NL4	Two NL4
OPERATIONAL MODES	Subwoofer	Subwoofer
DIMENSIONS (H x W x D)	558 x 568 x 718 mm (22.0 x 22.4 x 28.3 in)	564 x 1137 x 708 mm (22.2 x 44.8 x 27.9 in)
NET WEIGHT (each)	45 kg (100 lb)	82 kg (180 lb)
SUSPENSION/MOUNTING	N/A	N/A
ACCESSORIES	WK-4 Caster Kit; SS4-BK Adjustable heavy-duty pole, M20 thread to 35 mm	WK-4 Caster Kit



TRUCK PACK FRIENDLY

All STX800 Series cabinets were sized in an effort to maximize the interior compartments of most standard transport vehicles. Considerations were made to help STX owners exploit the given area in an effort to reduce fuel costs by eliminating additional vehicles or extra trips.

¹ Based on 2m acoustic load

² IEC Filtered Noise with 6 dB Crest Factor, 2 hours duration

³ Calculated based on power rating and sensitivity

VRX900 Series



VRX928LA and VRX915S are now available in white (-WH). Three VRX928LA-WH and one VRX915S-WH are shown.

VRX900

S E R I E S

The new VRX Series addresses the growing need for a small format professional sound system for sound rental companies, fixed installations and musicians looking for the ultimate in performance and portability.

Sharing components with the JBL VERTEC® Line Array Series, the worldwide touring industry standard, the VRX Series features the performance of high end line arrays in a compact format. It's affordable and flexible and provides outstanding coverage and output coherence, while delivering extraordinary power handling, clarity and flexibility.

The VRX Series features the hallmark of all JBL products – stunning, legendary JBL sound.

VERSATILE CONFIGURATIONS

Fly your VRX900 Array: The VRX Series is equipped with JBL's exclusive integral rigging hardware that allows the enclosures to be quickly and securely locked to one another by simply swinging a hinged bar into place and securing it with the included quick release pins. VRX900 line arrays and subwoofers may be suspended using the VRX-AF and VRX-SMAF array frame providing an easy to use, elegant suspension system for flown arrays.

Pole Mount: To create a small, compact non-flying system, the VRX may be mounted on a tripod. For greater power and low-frequency extension, one or two VRXs may be pole-mounted over their companion subwoofer.

Single Cabinet: When configured for smaller venues, or musicians working alone, the compact size, portability, light weight and stunning performance of the VRX allow it to be used as a single cabinet two-way utility speaker system that can be conveniently mounted on a tripod.

Ground Stack: For reaching bleacher and stadium seating from ground level, the VRX's ingenious cabinet design allows it to be ground stacked in configurations of up to 4 enclosures delivering all of the power, clarity and control of a full flown line array system without the additional labor and expense.

CONSTANT CURVATURE LINE ARRAY

The VRX waveguide mounts three compression drivers on a continuous arc enabling them to work together acoustically as if they were a single source, while dramatically increasing the power handling and acoustic output when compared to a single driver system. Additional enclosures can be added creating an uninterrupted, continuous arc with all of the drivers working together seamlessly as if they were one driver on a very long waveguide.

AMPLITUDE SHADING

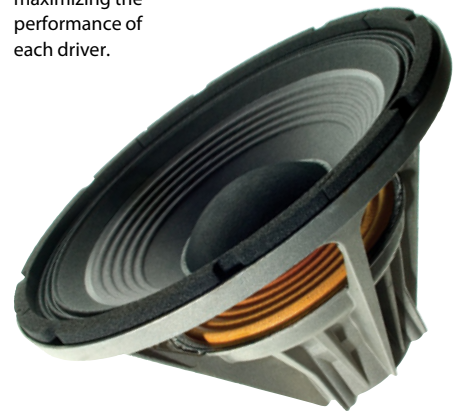
For a smooth, consistent sound field, the VRX uses JBL's Array Configuration Selector, a convenient series of switches on each enclosure that controls the output of each high-frequency section in the array so each section of the venue can be fine tuned for a balanced, seamless overall coverage pattern.

ARRAY TOOL

The VRX932LA and VRX928LA array tools provide visual help for the user to better understand and deploy a VRX900 Line Array. Acoustic performance can be quickly assessed by simply creating a two dimensional view of the environment the VRX900 system would be used in. The effect of adding systems to the array and adjustments of the Array Configuration Selector can be quickly analyzed. Information can be found online at: <http://www.jblpro.com/vrx/ARRAYTOOL.HTML>.

DIFFERENTIAL DRIVE® WOOFERS

JBL designed the VRX's drivers with much less weight than comparable drivers and yet significantly increased power handling and output. Super lightweight neodymium magnets positioned inside the voice coil of each driver, a key feature of JBL's patented Differential Drive woofer design, reduce the massive steel top plates, back plates and pole pieces found in the 'magnetic circuits' of conventional loudspeakers. The VRX's dual voice coil design delivers greater power handling while maximizing the performance of each driver.



key features

VRX900 Series

- ▶ PATENTED DIFFERENTIAL DRIVE® WOOFERS WITH NEODYMIUM MAGNETS
- ▶ MULTIPLE NEODYMIUM, ANNULAR DIAPHRAGM RING DRIVERS PER SPEAKER
- ▶ CONSTANT CURVATURE WAVEGUIDE
- ▶ DUAL ANGLE POLE SOCKET
- ▶ INTEGRAL RIGGING HARDWARE
- ▶ ARRAY CONFIGURATION SELECTOR FOR "ARRAY SHADING"

VRX915M

The **VRX915M** is a dedicated, compact and lightweight 15" two way touring-class floor monitor, with only a 375 mm (14.75 in) stage height and JBL's latest neodymium-magnet transducers. Bi-amp or full-range passive operation may be selected via a recessed, high-current switch mounted alongside the NL4 input connector in one of the handle cups. An additional NL4 connector is mounted in the other handle cup for a convenient loop-thru connection.

VRX928LA

The **VRX928LA** is a lightweight (28 lb / 13 kg) compact 8" two-way linearray speaker system designed for use in arrays of up to six units. VRX928LA is the ideal choice when line-array performance is needed but the venue size doesn't call for the very long-throw characteristics of the larger VRX932LA.

As many as six VRX928LA speaker systems may be suspended in a single array for a nominal vertical coverage of up to 90°. Suspended applications require the JBL VRX928LA-SMAF array frame (available separately). For applications in which the array must be aimed sharply down, a second Array Frame may be installed to the bottom of the array serving as a pull-back.

VRX932LA-1

The **VRX932LA** is designed for use in arrays of up to six units. Each VRX932LA contains three drivers, which results combined power handling and acoustic output far greater than a single driver could achieve.

As many as six VRX932LA speaker systems may be suspended in a single array for a nominal vertical coverage of up to 90°. Suspended applications require the JBL VRX932LA-AF array frame (available separately). For applications in which the array must be aimed sharply down, a second array frame may be installed to the bottom of the array serving as a pull-back.

One or two VRX932LAs may also be used on a tripod or over subwoofers, with the exception of VRX932LA-WH. The integral rigging hardware is used to securely lock the array together while the dual-angle pole socket provides aiming flexibility.

VRX932LAP

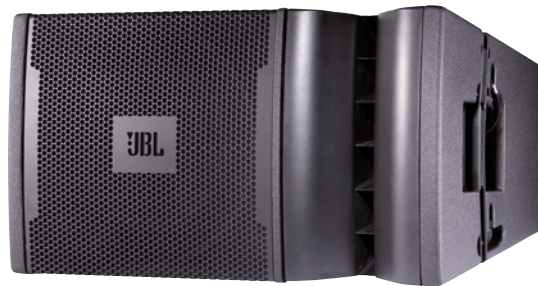
The **VRX932LAP** is a powered, lightweight, compact 12" two-way line-array speaker system designed for use in arrays of up to five units. VRX932LAP is the ideal choice when line-array performance is needed but the venue size doesn't call for the very long-throw characteristics of larger line-arrays and a fast and easy setup is vital.

One or two VRX932LAP's may also be used on a tripod or over subwoofers. The integrated rigging hardware is used to securely lock the array together while the dual-angle pole socket provides aiming flexibility. As many as five VRX932LAP speaker systems may be suspended in a single array for a nominal vertical coverage of up to 75°. Suspended applications require the JBL VRX-AF array frame or eye bolts (available separately).

VRX915S

The **VRX915S** is a compact, high power suspendable subwoofer system containing a 2265G-1 neodymium magnet, patented Differential Drive®, 15" woofer in a front-loaded, vented enclosure.

The VRX915S was designed specifically for use in arrays with the VRX928LA Line Array speaker and VRX-SMAF Array Frame. In addition it may also be used in arrays consisting entirely of VRX915S subwoofers. The system offers complete input connection flexibility for compatibility with a variety of cabling schemes.



VRX932LAP

VRX918S

For applications requiring the sonic and practical advantages of integrating the subwoofers into the flying array JBL offers the **VRX918S**, a compact, high power, suspendable subwoofer system using an 18" Differential Drive® woofer in a front-loaded, vented enclosure. The VRX918S was designed specifically for use in arrays with the VRX932LA Line Array speaker and VRX-AF Array Frame. It may also flown in arrays consisting entirely of VRX918S or ground stacked.

The VRX918S, with the exception of the VRX918S-WH, is equipped with a top-mounted, threaded, 20 mm socket that can receive the optional SS4-BK pole. Users who don't require a suspendable subwoofer can opt for the acoustically identical SRX718S sub.

VRX918SP

The **VRX918SP** is a powered, suspendable subwoofer system containing a 2268FF neodymium magnet, patented Differential Drive®, 18" woofer in a front-loaded, vented enclosure.

The VRX918SP was designed specifically for use in arrays with the VRX932LAP Line Array speaker and VRX-AF Array Frame. In addition it may also be used in arrays consisting entirely of VRX918SP subwoofers. Equally at home in ground stacked applications, the VRX918SP is equipped with a top-mounted, threaded, 20 mm socket that can receive the optional SS4-BK pole.

VRX932LAP
(Back View)



VRX918SP
(Back View)

The two most popular VRX900 models are now available in a powered version for a setup that's even faster and easier. The JBL DrivePack® DPC-2 amplifier module with integrated DSP provides the power and system management. Dual Bridged Technology directly links discrete amplifier channel outputs with each voice-coil in the Differential Drive woofer to deliver the most efficient power match.



PORTABLE PRODUCTS



VRX932LA-1
(3 shown)
VRX932LAP



VRX915M



VRX918S
VRX918SP



VRX928LA
(2 shown)



VRX915S

The VRX928LA is designed to fit perfectly on top the compact VRX915S 15" subwoofer. This system is designed to work in even smaller spaces and to be ultra portable.

specificati

	VRX915M	VRX928LA VRX928LA-WH	VRX932LA-1 VRX932LA-WH	VRX932LAP	VRX915S VRX915S-WH	VRX918S VRX918S-WH	VRX918SP
SYSTEM TYPE	15" Two-way Stage Monitor	12" Two-way, Powered Line Array Loudspeaker System	12" Two-way, Powered Line Array Loudspeaker System	12" Two-way, powered Line Array Loudspeaker System	15" Bass-reflex Subwoofer	18" Bass-reflex Subwoofer	18" Bass-reflex Powered Subwoofer
FREQ. RANGE (-10 dB) ¹	60 Hz - 20 kHz	70 Hz - 20 kHz	57 Hz - 20 kHz	57 Hz - 20 kHz	35 Hz - 250 Hz	31 Hz - 220 Hz	31 Hz - 220 Hz
FREQ. RESPONSE (±3dB) ¹	70 Hz - 20 kHz	87 Hz - 19 kHz	75 Hz - 20 kHz	75 Hz - 20 kHz	40 Hz - 250 Hz	34 Hz - 220 Hz	34 Hz - 220 Hz
SENSITIVITY: 1 W, 1 m	98 dB SPL	Passive: 90 dB SPL, Bi-Amp LF: 90 dB SPL Bi-Amp HF 108 dB SPL ³	Passive: 95 dB SPL, Bi-Amp LF: 95 dB SPL Bi-Amp HF 114 dB SPL ³	Passive: 95 dB SPL, Bi-Amp LF: 95 dB SPL Bi-Amp HF 114 dB SPL ³	91 dB SPL	95 dB SPL	
NOMINAL IMPEDANCE: PASSIVE BI-AMP	8 ohms	8 ohms LF: 8 ohms/HF: 16 ohms	8 ohms LF: 8 ohms/HF: 16 ohms	LF: 2 x 2 ohms / HF: 4 ohms	4 ohms	8 ohms	2 x 2 ohms
MAXIMUM SPL @ 1 m	127 dB SPL continuous 133 dB SPL peak ²	Passive: 122 dB SPL ² Bi-amp LF: 122 dB SPL Bi-amp HF: 128 dB SPL ³	Passive: 130 dB SPL ² Bi-amp LF: 130 dB SPL Bi-amp HF: 139 dB SPL ³	136 dB SPL ²	126dB SPL peak ²	130 dB SPL peak ²	126dB SPL peak ²
POWER RATING: PASSIVE BI-AMP Continuous/Program/Peak	800W / 1600W / 3200W ²	400 W / 800 W / 1600 W LF: 400 W / 800 W / 1600 W ² HF: 30 W / 60 W / 120W	800 W / 1600 W / 3200 W LF: 800W / 1600W / 3200W ² HF: 75 W / 150 W / 300 W	Internal DPC-2: 875W Cont. / 1750W Peak LF: 750 W / HF: 125 W	800 W / 1600 W / 3200 W ⁴	800 W / 1600 W / 3200 W ⁴	Internal DPC-2: 750W
NOMINAL DISPERSION	50° x 90°	100° x 15°	100° x 15°	100° x 15°			
TRANSDUCERS: LF HF	1 x JBL 2265H 1 x JBL 2452H (4 in)	1 x JBL 2168H-1 (8 in) 2 x JBL 2414H (1 in)	1 x JBL 2262H (12 in) 3 x JBL 2408J (1.5 in)	1 x JBL 2262FF (12 in) 3 x JBL 2408J (1.5 in)	1 x JBL 2265G-1 (15 in) Differential Drive Woofer	1 x JBL 2268H (18 in) Differential Drive Woofer	1 x JBL 2268FF (18 in) Differential Drive Woofer
ENCLOSURE	15/18 mm birch plywood	15 mm - 25 mm multi-ply birch plywood	18 mm - 25 mm multi-ply birch plywood	15mm - 25 mm multi-ply birch plywood	15/18 mm birch plywood	18 mm, 11- ply birch plywood	18 mm, 11- ply birch plywood
FINISH	Black DuraFlex™ finish	Black DuraFlex finish	Black DuraFlex finish	Black DuraFlex finish	Black DuraFlex finish	Black DuraFlex finish	Black DuraFlex finish
INPUT CONNECTORS	Neutrik® Speakon® NL-4 (x2)	Neutrik Speakon NL-4 (x2)	Neutrik Speakon NL-4 (x2)	AC: Neutrik PowerCon (NAC 3MPA)	Neutrik Speakon NL-4 (x2)	Neutrik Speakon NL-4 (x2)	AC: Neutrik PowerCon (NAC 3MPA)
DIMENSIONS (H x W x D)	629 x 432 x 324 mm 24.75 x 17 x 12.75 in	230 x 419 x 267 mm 9.0 x 16.5 x 10.5 in	349 x 597 x 381 mm 13.75 x 23.5 x 15.0 in	349 x 597 x 444 mm 13.75 x 23.5 x 17.5 in	496 x 420 x 597 mm 19.5 x 16.5 x 23.5 in	508 x 597 x 749 mm 20.0 x 23.5 x 29.5 in	508 x 597 x 749 mm 20.0 x 23.5 x 29.5 in
NET WEIGHT (each)	21 kg (46 lb)	12.7 kg (28 lb)	21.0 kg (46 lb)	24.0 kg (52 lb)	26 kg (57 lb)	37 kg (81 lb)	38.5 kg (85 lb)

¹ "Frequency Range" and "Frequency Response" are based on half-space conditions.

² IEC filtered noise with 6 dB crest factor, 2 hrs.

³ HF driver sensitivity is based on measurements averaged between 1.5 kHz - 16 kHz

⁴ 40 - 120 Hz pink noise, 6 dB crest factor, 2 hrs.

Tour Sound Products



JBL VERTEC® Line Array Systems (VT4889, VT4880A) for
World's Largest Music Festival (Rock In Rio, Lisbon and Madrid)
Rental System Contractor: Gabisom



2269H
Ultra Long Excursion 18" Woofer



2166H
Long-Throw 6.5" Woofer



D2430K
Dual Diaphragm Compression Driver

Perhaps more than any other single company in the professional sound industry, JBL Professional, under the guiding wisdom of founder James B. Lansing, has shaped large scale forms of public entertainment we now take for granted. Through Mr. Lansing's development of revolutionary transducers and the resulting sound reinforcement technologies, concerts and special events of all types can now enjoy exceptional sound quality.

JBL has continued this tradition of revolutionary technology with VERTEC® line arrays – a flexible, high performance product line including subcompact, compact, midsize and fullsize line array elements and companion subwoofers, along with powered options equipped with JBL DrivePack® technology. It's the ideal solution to a broad range of sound reinforcement challenges for both portable rental inventories, and fixed performance-venues.



VERTEC® Series

JBL's early research into column-type line arrays nearly 40 years ago provides a solid foundation for VERTEC – line arrays with lineage. Combining JBL's latest generation of high-powered lightweight transducers with proven line array theory, precisely-adjustable array elements and accurate prediction software, this industry-leading product line enables tour sound system operators, rental companies and performance venues to achieve predictable, consistent results.

All models in the VERTEC product line are engineered to offer sound reinforcement professionals solutions to meet nearly any challenge. Each model is compatible with others in the line, both mechanically and acoustically. With built-in advantages like lightweight construction, high output, and integral suspension hardware, each VERTEC model is designed to deliver premium-quality audio for a wide range of applications including concert touring, corporate A/V, and fixed installation in performance venues.

HIGH-PERFORMANCE FEATURES

Each model in the VERTEC system family features high performance technologies, engineered to work together to maximize utility and audio performance.

PlyMax® enclosure technology is used for constructing the VT4889-1, VT4888, VT4887A, VT4882, VT4881A and VT4880/80A systems. PlyMax offers rigid enclosure characteristics along with dramatic weight savings.

Advanced Transducers give each VERTEC system its performance edge. All models feature dual voice coil Differential Drive™ technology, providing unparalleled output capability for which VERTEC is legendary, while ensuring pristine, low-distortion audio reproduction.

Precision waveguides are coupled to the advanced-technology compression drivers to create an uninterrupted vertical 'ribbon' of high frequency energy in the full-range system.

Radiation Boundary Integrators™ for the midrange section of each system reduce diffraction effects providing smooth high frequency coverage.

TOUR-READY SYSTEMS

Each model in the VERTEC line is intended to support the type of rugged use encountered when transported from venue to venue. Care has been given to system design ergonomics, making VERTEC arrays among the simplest and fastest to setup and takedown.

All enclosures feature JBL Professional's rugged DuraFlex™ exterior finish. Each system features loudspeaker components with weather-resistant cone treatment.

S.A.F.E.™ SUSPENSION HARDWARE

All models in the VERTEC line are fitted with integral side-mounted suspension frames. These load-rated, heat-treated, premium-grade tubular frames couple together using quick-release pins and hinge bars to create arrays that are rigid for maximum strength, yet flexible in design and application.

ARRAY FRAME OPTIONS

The VERTEC suspension system includes several frame options for suspending arrays. "AF" (Array Frames) and "SF" (Short Frames) are available for use with sub compact, compact, midsize and fullsize elements. The Short Frames can also be used as an 'anchor' at the bottom of large arrays, providing a separate rear pickup point to tilt the array. These frames are also suitable for ground-stacking up to 6 enclosures (AF models) or 4 enclosures (SF models).

LINE ARRAY CALCULATOR

This predictive software provides a wealth of technical information about VERTEC line array system performance expectations for various audience configurations.

VT4889-1

Fullsize, lightweight enclosure housing two 15" woofers, four 8" midrange transducers, and three high frequency compression drivers. These advanced components provide the highest power-to-weight ratio of any speaker in the full-size line array class.

VT4888

Midsize, lightweight line array element housing two 12" woofers, four 5½" midrange transducers, and two high frequency compression drivers. Designed for use in stand-alone arrays or in combination with other VERTEC system products.

VERTEC line array elements are available with dolly wheel-boards that double as a protective front plate, and reinforced, padded covers for maximum protection during handling and transport.



VT4887A

Compact, lightweight line array element housing two 8" woofers, four 4" midrange transducers, and two high frequency compression drivers. Offering the best low frequency extension and output in its class, it can be used in stand-alone arrays or in combination with other VERTEC system products.

VT4886

Subcompact Passive Three-Way Line Array Element fitted with two 6.5" woofers, four 2.5" midrange transducers, and two high frequency drivers with a highly-refined internal passive network. Designed for stand-alone use or in multi-box arrays, and ideal for use in combination with the VT4883 Subcompact subwoofer.

VT4880/VT4880A

Fullsize, lightweight, centrally-vented arrayable subwoofers housing two 18" woofers. These advanced components, each fitted with dual voice coils, provide high output capabilities and are fully compatible with VT4889-1 fullrange systems.

VT4882

Midsize, lightweight, centrally-vented subwoofer enclosure housing two long-excursion 15" woofers. These advanced components, each with dual voice coils, provide high output capabilities and best-in-class power-to-weight ratio.

VT4881A

Compact, lightweight, vented subwoofer enclosure housing a dual voice coil 18" woofer. This advanced component has a compliance capable of nearly 3" (76 mm) peak-to-peak cone excursion, providing unparalleled low frequency extension and output

VT4883

Subcompact Dual 12" Cardioid-Arrayable Subwoofer is a companion low frequency extension for the VT4886 subcompact 3-way enclosure. Fitted with a pair of long-excursion 12" woofers to deliver high quality sound reinforcement of sub-low frequencies for a variety of applications where small enclosure size is key.

VERTEC®

Flexible Line Array Solutions

VERTEC® SYSTEM FEATURES



PRECISION WAVEGUIDES



RBI™: RADIATION BOUNDARY INTEGRATOR

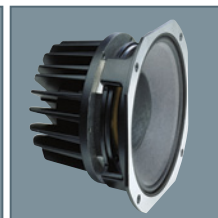


INPUT PANEL WITH PARALLEL CONNECTORS

VT4889-1 SYSTEM COMPONENTS



2255H 15" DIFFERENTIAL DRIVE® LOUDSPEAKER



2250H 8" MIDRANGE CONE TRANSDUCER



2435H HIGH PERFORMANCE COMPRESSION DRIVER



FULLSIZE



MIDSIZE



COMPACT



SUBCOMPACT

full range

	VT4889-1	VT4888	VT4887A	VT4886
SYSTEM TYPE	Fullsize Three-way Line Array Element	Midsize Three-way Line Array Element	Compact Bi-amped Line Array Element	Subcompact Passive 3-Way Line Array Element
FREQUENCY RESPONSE	45 Hz - 16 kHz (± 3 dB)	60 Hz - 16 kHz (± 3 dB)	67 Hz - 20 kHz (± 3 dB)	75 Hz - 18 kHz
COVERAGE (H) -6 dB	90° nominal (250 Hz - 16 kHz)	90° nominal (250 Hz - 16 kHz)	100° nominal (500 Hz - 16 kHz)	110° nominal (250 Hz - 16 kHz)
SENSITIVITY: 1 W, 1 m	LF: 99 dB, MF: 102 dB, HF: 116 dB	LF: 98 dB, MF: 102 dB, HF: 114 dB	LF: 97 dB, MF/HF: 103 dB	101 dB
NOMINAL IMPEDANCE	LF: 2 x 8 ohms, MF: 8 ohms, HF: 16 ohms	LF: 2 x 8 ohms, MF: 8 ohms, HF: 16 ohms	LF: 8 ohms, MF/HF: 8 ohms	12 ohms
INPUT POWER RATING ¹ : LF MF/HF	2 x 1000 W 1400 W MF/ 225 W HF	2 x 1000 W 600 W MF/ 150 W HF	1000 W 225 W (MF/HF)	900 W
TRANSDUCERS	LF: 2 x 2255H (15 in) MF: 4 x 2250H (8 in) HF: 3 x 2435H	LF: 2 x 2262H (12 in) MF: 4 x 2106H (5 1/2 in) HF: 2 x 2431H	LF: 2 x 2168J-1 (8 in) MF: 4 x 2104H (4 in) HF: 2 x 2408H	LF: 2 x 2166H Dual-Coil (6.5" in) MF: 4 x 2103G (2.5 in) HF: 2 x 2414H
ENCLOSURE	Wedge Frustrum PlyMax®	Wedge Frustrum, PlyMax	Wedge Frustrum, PlyMax	Wedge Frustrum, PlyMax
FINISH	DuraFlex™	DuraFlex	DuraFlex	DuraFlex
INPUT CONNECTORS	NL8, 2 each	NL8, 2 each	NL8 and NL-4, 2 each	NL8 and NL-4, 2 each
DIMENSIONS (H x W x D)	489 x 1213 x 546 mm 19.25 x 47.75 x 21 in	355 x 991 x 508 mm 14 x 39 x 20 in	281 x 787 x 415 mm 11 x 31 x 16.3 in	197 x 579 x 261 mm 7.8 x 22.8 x 10.3 in
NET WEIGHT (each)	79.8 kg (176 lb)	51.3 kg (113 lb)	30.4 kg (67 lb)	15.4 kg (34 lb)



¹ AES 2 hour Standard, free air.

subwoofers

	VT4880	VT4880A	VT4882	VT4881A	VT4883
SYSTEM TYPE	Fullsize Dual 18" Subwoofer	Fullsize Dual 18" Ultra Long Excursion Subwoofer	Midsize Dual 15" Subwoofer	Compact 18" Subwoofer	Subcompact Dual 12" Cardioid-Arrayable Subwoofer
FREQUENCY RESPONSE	29 Hz - 120 Hz (± 3 dB)	28 Hz - 120 Hz (-3 dB)	32 Hz - 110 Hz (± 3 dB)	34 Hz - 125 Hz (± 3 dB)	40 Hz - 300 Hz (± 3 dB)
SENSITIVITY: 1 W, 1 m	98 dB	95 dB	95 dB	91 dB	95 dB
NOMINAL IMPEDANCE	2 x 8 ohms	2 x 8 ohms	2 x 8 ohms	8 ohms (Each coil independently wired)	2 x 8 ohms
INPUT POWER RATING ¹	2 x 1000 W	2 x 2000 W	2 x 700 W	2000 W	2 x 1000 W
TRANSDUCERS	2 x 2258H Dual-Coil (18 in)	2 x 2269H Dual-Coil (18 in)	2 x 2266H Dual-Coil (15 in)	1 x 2269H Dual-Coil (18 in)	2 x 2263H-1 Dual-Coil (12 in)
ENCLOSURE	Wedge Frustrum	Wedge Frustrum	Wedge Frustrum	Rectangular, PlyMax	Rectangular, PlyMax
FINISH	DuraFlex	DuraFlex	DuraFlex	DuraFlex	DuraFlex
INPUT CONNECTORS	NL4, 2 each	NL8 and NL4, 2 each	NL8 and NL4, 2 each	NL8 and NL4, 2 each	NL8 and NL4, 2 each
DIMENSIONS (H x W x D)	493 x 1229 x 860 mm 19.42 x 48.38 x 33.85 in	493 x 1229 x 860 mm 19.42 x 48.38 x 33.85 in	457 x 1013 x 858 mm 18 x 39.9 x 33.8 in	569 x 787 x 654 mm 22.4 x 31 x 25.8 in	398 x 579 x 643 mm 15.7 x 22.8 x 25.3 in
NET WEIGHT (each)	71 kg (157 lb)	83.9 kg (185 lb)	53.5 kg (118 lb)	50.4 kg (111 lb)	29.5 kg (65 lb)

key features

- ▶ INDUSTRY'S SMALLEST, LIGHTEST, MOST POWERFUL HIGH FREQUENCY COMPRESSION DRIVERS

- ▶ ADVANCED TECHNOLOGY COMPONENTS
- ▶ PRECISION WAVEGUIDES PROVIDE VERTICAL LINE SOURCE COUPLING
- ▶ RADIATION BOUNDARY INTEGRATOR (RBI™) TECHNOLOGY INTEGRATES OUTPUT OF INDIVIDUAL BANDPASS ELEMENTS

- ▶ EXCEPTIONALLY RIGID, LIGHTWEIGHT ENCLOSURE CONSTRUCTION
- ▶ RUGGED DURAFLEX™ EXTERIOR FINISH AND WEATHERIZED COMPONENTS
- ▶ INTEGRATED S.A.F.E.™ SUSPENSION SYSTEM

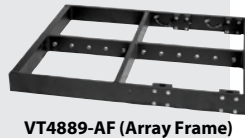
Separately-ordered accessories for: VT4889-1, VT4880, VT4880A, VT4888, VT4882, VT4887A and VT4881A

ACCESSORY KITS

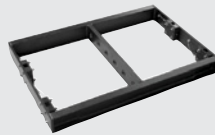
- VT4889-1-ACC** Dolly/wheelboard and padded protective cover for one VT4889-1.
- VT4880-ACC** Dolly/wheelboard, padded protective cover and suspension hinge bars for one VT4880.
- VT4880A-ACC** Dolly/wheelboard and padded protective cover for one VT4880A.
- VT4888-ACC** Dolly/wheelboard and padded protective cover for one VT4888.
- VT4882-ACC** Dolly/wheelboard and padded protective cover for one VT4882.
- VT4887-ACC** Dolly/wheelboard and padded protective cover for one VT4887A.
- VT4881-ACC** Dolly/wheelboard and padded protective cover for one VT4881A.

SUSPENSION ACCESSORIES

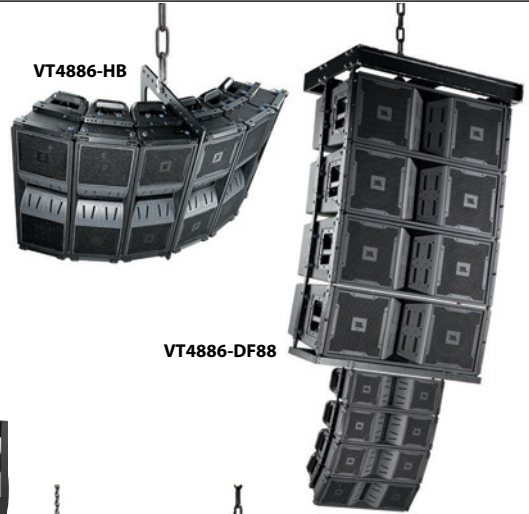
- VT4889-AF** Array Frame for suspending or ground stacking VTX-V25, VTX-S28, VT4889-1, VT4880, VT4880A enclosures.
- VT4889-SF** Short Frame for suspending or ground stacking VTX-V25, VTX-S28, VT4889-1, VT4880, VT4880A enclosures; can also be used on the bottom of arrays for rear pullback suspension.
- VT4888-AF** Array Frame for suspending or ground stacking VT4888 or VT4882 enclosures.
- VT4888-SF** Short Frame for suspending or ground stacking VT4888 or VT4882 enclosures; can also be used on the bottom of arrays for rear pullback suspension.
- VT4887-AF** Array Frame for suspending or ground stacking VT4887A or VT4881A enclosures.
- VT4887-SF** Short Frame for suspending or ground stacking VT4887A or VT4881A enclosures; can also be used on the bottom of arrays for rear pullback suspension.
- VT4800-CA** Compact Adaptor, use to suspend VT4887 or VT4887A from VT4888 or VT4882.
- VT4800-DA** Downfill Adaptor, use to suspend up to 4 VT4887As or VT4887 enclosures from VTX-V25, VTX-S28, VT4889, VT4889-1, VT4880 or VT4880A enclosures.
- VT4800-UA** Universal Adaptor Frame, use to suspend midsize or compact models from VTX-V25, VTX-S28, VT4889, VT4889-1, VT4880 or VT4880A enclosures.



VT4889-AF (Array Frame)



VT4889-SF (Short Frame)



VT4886-HB

VT4886-DF88



VT4886-SF



SS5-BK (Hand Crank)



VT4886-UB1
Universal Bracket

VT4886-DF89
(Downfill Adaptor)

SS5-BK
(Hand Crank)

Accessories available for the VT4886 and VT4883

- VT4886-AF** Array frame for suspension or ground stacking of VT4883, VT4886, or mixed VT4883/VT4886 arrays.
- VT4886-SF** Short Array frame for suspension of smaller VT4886 arrays. Can also be used at the bottom of arrays for rear pull-back suspension.
- VT4886-DF88** Downfill Adapter for suspending VT4886 under VT4888 or VT4882.
- VT4886-DF89** Downfill Adapter for suspending VT4886 under VTX-V25, VTX-S28, VT4889-1, VT4880, VT4880A.
- VT4886-UB** Universal Bracket with extension arms for pole mounting, stacking, underbalcony suspension or wall mounting of 1x, 2x, 3x or 4x VT4886 enclosures, respectively.
- VT4886-UB1** Basic Universal Bracket for pole mounting, stacking, underbalcony suspension or wall mounting of 1x, 2x or 3x VT4886 enclosures, respectively.
- VT4886-HB** Horizontal bracket for arraying VT4886 enclosures as a constant curvature horizontal line array. (Suspended or pole mounted.)
- SS5-BK** Adjustable extension rod with M20 thread for attachment to VT4883 subwoofer. Secure, hand crank height adjustment. Vibration isolation adapter for attachment to optional VT4886-UB, -UB1 or -HB accessories.



VT4886-UB

VERTEC® DP Series

Powered Line Array Systems



DP
DRIVEPACK™

The JBL VERTEC DP Series couples industry-leading loudspeaker technology to the innovative JBL DrivePack® technology platform delivering superb audio quality and robust power, perfectly matched to the enclosures, with comprehensive internal digital signal processing. Based on JBL's industry-leading VERTEC line array elements, these systems are lightweight, powerful, and cost-effective.

Designed in cooperation with development partners Crown, dbx and BSS, JBL DrivePack models are designed to exceed all expectations for loudspeaker performance, power handling and audio system control.

VT4889ADP-DA

Fullsize, powered enclosure housing two 15" woofers, four 8" midrange transducers, and three high frequency compression drivers that combine to provide a high power-to-weight ratio. Equipped with a JBL DrivePack DP3 fully integrated power and DSP electronics package featuring BSS OmniDrive HD™ signal processing.

The VT4889ADP-DA is designed to deliver high-quality reinforcement of music and speech in large-scale, maximum-performance applications including concert audio, corporate A/V and theatrical presentations for both portable users and performance venue installations.

VT4888DP-DA

Midsized, powered enclosure housing two 12" woofers, four 5.5" midrange transducers and two high frequency compression drivers. Equipped with a JBL DrivePack DP3 fully integrated power and DSP electronics package featuring BSS OmniDrive HD™ signal processing.

The VT4888DP-DA is designed to deliver high-quality reinforcement of music and speech in a variety of general-purpose applications including concert audio and corporate A/V presentations for both portable users and fixed venue installations.

VT4887ADP-DA

Compact, powered enclosure housing two 8" woofers, four 4" midrange transducers and two high frequency compression drivers. Equipped with a JBL DrivePack DP2 fully integrated power and DSP electronics package featuring BSS OmniDrive HD™ signal processing.

The VT4887ADP-DA is designed to deliver high-quality reinforcement of music and speech in a variety of applications where smaller-sized arrays are appropriate, including concert audio, corporate A/V and theatrical presentations for both portable users and performance installations.

VT4880ADP-DA

Fullsize, powered sub-woofer housing two 2269G Ultra-Long Excursion 18" woofers and a JBL DrivePack DP-3 fully integrated power and DSP electronics package featuring BSS OmniDrive HD™ signal processing.

The VT4880ADP-DA is designed to deliver high quality reinforcement of VLF (Very Low Frequency) musical information for a broad range of applications. Ideal companion to VT4889ADP-DA fullsize powered three-way systems.

VT4882DP-DA

Midsized, powered sub-woofer housing two long excursion 15" woofers and a JBL DrivePack DP3 fully integrated power and DSP electronics package featuring BSS OmniDrive HD™ signal processing.

The VT4882DP-DA is designed to deliver high quality sound reinforcement of sub-low frequencies for concert audio and multi-media presentations of all types. The VT4882DP-DA is an ideal companion to VT4888 or VT4888DP-DA midsized full-range systems.

VT4881ADP-DA

Compact, powered sub-woofer housing one Ultra-Long Excursion 18" woofer and a JBL DrivePack DP1 fully integrated power and DSP electronics package featuring BSS OmniDrive HD™ signal processing.

The VT4881ADP-DA is designed to deliver high quality sound reinforcement of VLF musical information for a variety of applications including concert audio, corporate A/V and theatrical presentations of all types. Suitable for both portable users and fixed venue installations. Ideal companion to VT4887ADP-DA or VT4887A compact three-way systems.

key features

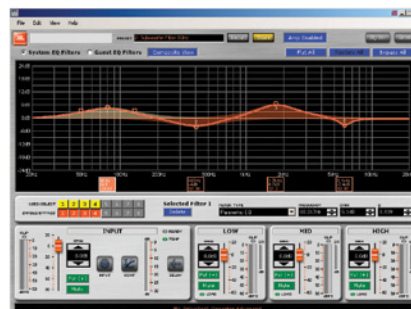
- ◆ INTEGRATED DIGITAL SIGNAL PROCESSING
- ◆ JBL DRIVEPACK® ELECTRONICS PACKAGE
- ◆ AUTOMATIC SELECTION OF 50 OR 60 Hz WORLDWIDE AC LINE VOLTAGES
- ◆ STANDARD NETWORK INPUT MODULES



Standard DPDA Input Module
(AES digital audio, BSS Audio OmniDrive HD processing, EtherCon connectors)



DPIP Optional Non-Networked Input Module
(analog audio only)



Software Device Panel Available in Harman Pro's HiQnet™ System Architect Software

INPUT MODULE & CONNECTIVITY

JBL DrivePacks are equipped with a modular input bay. The standard HiQnet-compatible DPDA input module offers ethernet connectivity for remote control and monitoring. The DPDA module also provides AES digital audio inputs with analog backup, BSS Audio OmniDrive HD™ signal processing with LevelMax™ multi-stage limiting, high-performance FIR/IIR filters, array/box I.D. mechanism and robust EtherCon® connectors optimized for tour/rental applications.

The optional, non-networked lower-cost DPIP input module from dbx features analog audio inputs. Like the DPDA module, it includes sophisticated DSP technology incorporating digital equalization, time alignment, frequency-dividing networks, classic dbx limiting functionality, and dbx Type IV® analog-to-digital converters. Two operating modes can be selected via rear panel switch (fullrange or subwoofer filter enable).

full-range

	VT4889ADP-DA	VT4888DP-DA	VT4887ADP-DA
SYSTEM TYPE	Powered Fullsize 3-way Line Array, Integrated Audio System	Powered Midsize 3-way Line Array, Integrated Audio System	Powered Compact 3-way Line Array, Integrated Audio System
FREQUENCY RESPONSE	45 Hz – 16 kHz (± 3 dB)	60 Hz - 16 kHz (± 3 dB)	67 Hz - 20 kHz (± 3 dB)
HORIZONTAL COVERAGE (-6 dB)	90° nominal (250 Hz - 16 kHz)	90° nominal (250 Hz - 16 kHz)	100° nominal (250 Hz - 16 kHz)
MAXIMUM PEAK OUTPUT	143 dB, 1m	139 dB, 1m	136 dB, 1m
NOMINAL IMPEDANCE: LF	LF: 4 ohms	LF: 4 ohms	LF: 4 ohms
MF	MF: 8 ohms	MF: 8 ohms	MF, HF: 8 ohms
HF	HF: 16 ohms (wired in series)	HF: 16 ohms	
DRIVEPACK POWER RATING	6000W Peak, 3000W Continuous	6000W Peak, 3000W Continuous	2200W Peak 1100W Continuous
TRANSDUCERS: LF	2 x 2265H (15 in) (Dual-Coil)	2 x 2262H (12 in) (Dual-Coil)	2 x 2168H-1 (8 in) (Dual-Coil)
MF	4 x 2169H (8 in)	4 x 2106H (5 1/2 in)	4 x 2104H (4 in)
HF	3 x 2435H (3" exit compression driver)	2 x 2431H (1.5" exit compression driver)	2 x 2408H (1" exit compression driver)
ENCLOSURE	Wedge Frustrum	Wedge Frustrum	Wedge Frustrum
FINISH	DuraFlex™	DuraFlex™	DuraFlex
INPUT CONNECTORS	Female XLR/Male XLR, EtherCon	Female XLR/Male XLR, EtherCon	Female XLR/Male XLR, EtherCon
DIMENSIONS (H x W x D)	1215 x 494 x 692 mm 47.8 x 19.4 x 27.2 in	355 x 1013 x 678 mm 14 x 39.9 x 26.7 in	279 x 787 x 563 mm 11 x 31 x 22.1 in
NET WEIGHT (each)	93.1 kg (205 lb)	67.2 kg (148 lb)	39.7 kg (87.5 lb)

accessories

Separately-ordered accessories for: VT4889ADP-DA, VT4888DP-DA, VT4887ADP-DA

VT4889ADP-ACC Dolly/wheelboard and padded protective cover for one VT4889ADP-DA

VT4888DP-ACC Dolly/wheelboard and padded protective cover for one VT4888DP-DA

VT4887ADP-ACC Dolly/wheelboard and padded protective cover for one VT4887ADP-DA

Separately-ordered accessories for: VT4880ADP-DA, VT4882DP-DA, VT4881ADP-DA

VT4880ADP-ACC Dolly/wheelboard and padded protective cover for one VT4880ADP-DA

VT4882DP-ACC Dolly/wheelboard and padded protective cover for one VT4882DP-DA

VT4881ADP-ACC Dolly/wheelboard and padded protective cover for one VT4881ADP-DA

subwoofers

	VT4880ADP-DA	VT4882DP-DA	VT4881ADP-DA
SYSTEM TYPE	Powered Fullsize 2-15" Subwoofer, Integrated Audio System	Powered Midsize 2-15" Subwoofer, Integrated Audio System	Powered Compact 1-18" Subwoofer, Integrated Audio System
FREQUENCY RESPONSE	29 Hz – 120 Hz (± 3 dB)	32 Hz - 110 Hz (± 3 dB)	34 Hz - 125 Hz (± 3 dB)
MAXIMUM PEAK OUTPUT	143 dB SPL, 1m	133 dB SPL, 1m	131 dB SPL, 1m
NOMINAL IMPEDANCE	LF: 4 ohms (Each transducer)	LF: 8 ohms (Each transducer)	VLF: 4 ohms
DRIVEPACK POWER RATING	6900 W Peak, 3500 W Continuous	3400W Peak, 1700W Continuous	3600W Peak, 1800W Continuous
TRANSDUCERS	2 x 2269G (18 in) (Dual-Coil)	2 x 2266H (15 in) (Dual-Coil)	1 x 2269G (18 in) (Dual-Coil)
ENCLOSURE	Wedge Frustrum	Wedge Frustrum	Rectangular Enclosure
FINISH	DuraFlex	DuraFlex	DuraFlex
INPUT CONNECTORS	Female XLR/Male XLR, EtherCon	Female XLR/Male XLR, EtherCon	Female XLR/Male XLR, EtherCon
DIMENSIONS (H x W x D)	1229 x 493 x 1011 mm 48.4 x 19.4 x 39.8 in	457 x 1013 x 1011 mm 18 x 39.9 x 39.8 in	569 x 787 x 800 mm 22.4 X 31 X 31.5 in
NET WEIGHT (each)	99.4 kg (219 lb)	69.9 kg (154 lb)	62.2 kg (137 lb)



VTX SERIES



Next Generation Line Array System Solutions

Of all the achievements JBL has made over the years, the VTX Series stands as a milestone in the practical application of creative engineering. The next generation in line arrays, VTX heralds a new era in performance, system integration and user friendliness.

Supported by multiple patents in driver, waveguide and suspension technology, VTX is also supported by technologies from Harman Professional sister companies for amplification, DSP, control and system management. In addition to high performance components, VTX is backed by JBL's high performance engineering support - the human factor and technical tools that are key to the proper specification and configuration of the VTX system in any venue, anywhere in the world.

The VTX Series is a result of JBL's continued effort to deliver more powerful, more compact, lightweight and flexible sound reinforcement systems. Designed for portable and fixed-venue system operators alike, VTX features JBL's legendary sound quality coupled with the most advanced sound reinforcement technology and support available.

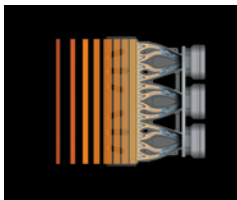


D2 Dual Diaphragm: Dual Voice Coil Compression Driver

The revolutionary, patented D2 Dual Driver dramatically improves the sound and performance of high frequencies by overcoming the limitations of conventional compression driver technology. By merging two annular, polymer diaphragms into a single compact transducer, the D2 driver has the same radiating area as a conventional device, however overall output and power handling are dramatically increased due to lower moving mass and enhanced heat transfer obtained by using two separate voice coils. The result is dramatically improved efficiency, power handling and smoother, more extended high frequency response with significantly lower levels of distortion.

Refined RBI Waveguide for Improved Vertical Coupling and Horizontal Coverage

VTX V25 features 3rd generation HF waveguide technology that produces a coherent, time-aligned high frequency wavefront that maximizes the combined output of three D2 Dual Drivers.



The waveguide creates a wavefront that is sufficiently flat to couple properly at extreme high frequencies and the active radiating surface area extends to the edge of the enclosure, ensuring optimized line source coupling from 0-10 degrees. JBL's patented Radiation Boundary Integrator™ seamlessly combines high- and mid-frequency sections, providing broad, stable 90 degree horizontal coverage.

S.A.F.E™ Suspension

VTX's patented S.A.F.E. suspension system is streamlined for speed and efficiency with improved hardware for faster setup with fewer pinning operations and greater security. All suspension hardware is integrated into the enclosure and strategically-positioned for fast and secure operation. Front flip hinges and captive rear hinge bars utilizing a unique Angle Stop Mechanism (ASM) allow for efficient assembly that is not only secure, but anti-rattle. Also included is provision for mounting a VTX Laser accessory for greater ease and precision in array focus and system tuning.



VTX SERIES

V25 G28 S28



Complete System Integration and Support

With the VTX Series you are not just using a product, you are gaining access to an expert system. Tools for system design and all the components to analyze, configure, set up and control a VTX system are all part of the JBL commitment to total system integration and support. The goal is maximum efficiency and the highest possible level of performance in any venue, anywhere in the world.

Crown® Audio VRack

A rugged touring rack fitted with three Crown iTech HD Series power amplifiers, power input panel, input / output panels that is available in two configurations: VRack 12000 or VRack 4x3500 (loaded with three Crown IT12000HD or IT4x3500HD, respectively). The Crown VRack standard ensures that VTX enclosures are optimally powered and processed while ensuring compatibility for cross rental between VTX Network Partners.

JBL Line Array Calculator

Acoustic modeling software accurately predicts performance in the user-defined venue, allowing for determination of the appropriate number of cabinets, required angles and installation parameters along with circuit level gain shading and frequency tapering using the JBL Line Array Control Panel equalization interface.

JBL HiQnet Performance Manager™ Software

Designed specifically for touring, the patented workflow paradigm of the Performance Manager interface makes the complex simple by guiding the system designer through the complete system design, configuration and control process.



VTX-V25

VTX Series V25 is a fullsize 3-way line array element featuring patented D2 dual diaphragm dual driver technology and patented Differential Drive® LF and MF cone transducers. Includes captive suspension hardware; transportation and handling accessories supplied separately.



VTX-G28

VTX Series G28 is a rectangular ground-stack dual 18" subwoofer featuring ultra long throw, patented Differential Drive® VLF transducers configured in a pseudo-vented-bandpass alignment with inverted woofers (motors out) for improved cooling and large area, laminar-flow, low-turbulence central port. Includes front NL4 connector for use when G28 enclosures are configured in rear-firing mode to create reverse-cardioid subwoofer arrays.



VTX-S28

VTX Series S28 is a suspendable, trapezoidal dual 18" subwoofer featuring ultra long throw, patented Differential Drive® VLF transducers configured in a front-loaded alignment with large area, laminar-flow, low-turbulence central port. Includes front NL4 connector for use when S28 enclosures are configured in rear-firing mode to create reverse-cardioid subwoofer arrays. Transportation and handling accessories supplied separately.

accessories

VTX-V25-ACC	Accessory Kit: dolly/wheelboard and padded protective cover for one VTX V25	VTX-V25-VT	Vertical Transporter for 4x VTX V25 including padded protective cover	VTX-S28-VT	Vertical Transporter for 3x S28 including padded protective cover
VTX-V25-ASP	Acoustic Spares Kit: (1x 2267H, 3x D2430K diaphragm kit, 2x 2169H)	VTX-V25-AF	Array Frame for suspending or ground stacking VTX V25 and/or VTX S28 enclosures	VTX-G28-ACC	Accessory Kit: dolly/wheelboard and padded protective cover for one VTX G28
VTX-V25-MSP	Mechanical Spares Kit: (hinges, quick release pins, grills, handles, suspension frames)	VTX-S28-ACC	Accessory Kit: dolly/wheelboard and padded protective cover for one VTX S28	VTX-LZ-K	Laser Kit: (power supply and 2x VTX-LZ lasers)
				VTX-LZ	Laser only (1 piece)
				VTX-LZ-PS	Power supply only (1 piece)

specifications

	V25	G28	S28
SYSTEM TYPE	Full Size 3-Way High Directivity Line Array Element with D2 Dual Drivers	Full Size Ground Stack-Only, Cardioid-Arrayable, Dual 18" Subwoofer with Ultra Long Excursion Transducers	Full Size Suspendable, Cardioid-Arrayable, Dual 18" Subwoofer with Ultra Long Excursion Transducers
COMPONENTS	2 x 2267H 15" Differential Drive® LF 4 x 2169H 8" Differential Drive® MF 3 x 2430K D2 Dual Driver	2 x 2269H Differential Drive® 18"	2 x 2269H Differential Drive® 18"
HORIZONTAL COVERAGE (-6 dB)	90 degrees nominal (250 - 16k Hz)		
FREQUENCY RANGE (-10 dB)	35 - 20k Hz	22 - 160 Hz	24 - 400 Hz
FREQUENCY RESPONSE (±3 dB)	41 - 18k Hz	27 - 120 Hz	27 - 300 Hz
SENSITIVITY (1W/1m)	99 dB LF, 103 dB MF, 116 dB HF	95 dB	96 dB
NOMINAL SECTION IMPEDANCES	2 x 8 ohms LF, 8 ohms MF, 8 ohms HF	2 x 8 ohms	2 x 8 ohms
CONTINUOUS POWER RATING	2 x 2000W LF, 1400W MF, 600W HF	2 x 2000W	2 x 2000W
DIMENSIONS (H x W x D)	414 x 1223 x 614 mm (16.3 x 48.2 x 24.2 in)	493.3 x 1210.8 x 1211.1 mm (19.4 x 47.7 x 47.7 in)	493.3 x 1222 x 926.5 mm (19.4 x 48.1 x 36.5 in)
NET WEIGHT (each)	82.6 kg (182 lb)	92.5 kg (204 lb)	83.0 kg (183 lb)



Installation Products

- | | | |
|-----------------------|------------------------|----------------------|
| Attractions | Education | Performance Theaters |
| A/V Systems | Fitness and Recreation | Professional Offices |
| Casinos | Government Facilities | Restaurants |
| Clubs | Health Facilities | Retail |
| Concert Venues | Hotels | Sporting Facilities |
| Convention Facilities | Houses of Worship | Sports Bars |
| Corporate | Museums | Theme Parks |
| | Music Cafes | Transit Centers |



Experience Music Center, Seattle, WA



New Meadowlands Stadium
East Rutherford, NJ



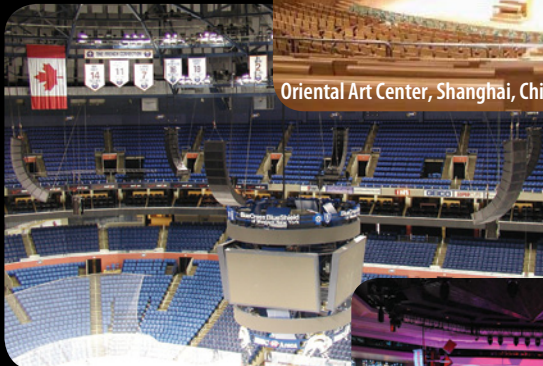
Harrahs, Chicago, IL



Oriental Art Center, Shanghai, China



Overture Center for the Arts, Madison, Wisconsin



HSBC Arena, Buffalo, New York



2nd Baptist Church, Houston, Texas

No matter where you go in this world, you'll find JBL Installed Sound Speaker Systems at many of the most notable venues.

With that kind of global perspective, JBL has come to respect the one indisputable truth of business: every customer is unique. A speaker system that is perfectly right for one job might be perfectly wrong for another. That's why JBL Installed Sound products offer a range of options without equal. From the extraordinary value of the Control Contractor Series to the ultimate precision of the JBL Precision Directivity Series, there's a JBL Installed Sound product with a solid business solution based on equally solid business savvy.

For more than 60 years, JBL has been the professional speaker of choice wherever sound matters. We'd like to believe it should be your choice, too.

VP Series

Self-Powered Integrated Audio Systems



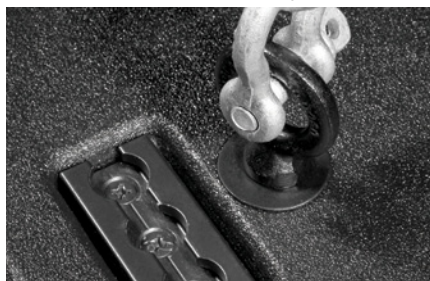
Venue Performance Series—a family of self-powered loudspeaker systems consisting of ten models, suitable for portable or fixed installation sound reinforcement applications where high-output, low-distortion, and the highest quality sound are required.

JBL DrivePack®



A key feature of the VP Series are the highly adaptable JBL DrivePack amplifier and signal processing modules. The two channel DP-2 module provides 1100 watts of total continuous power to each fullsize, full-range system while the DP-1 sub-woofer module provides 1800 watts continuous power to the loudspeaker.

The JBL DP-1 and DP-2 DrivePacks operate on auto-selecting line voltages at 50 or 60 Hz for worldwide operation. The compact three channel DPC-2 module used on the smaller VP Series models uses two of the three amplifier channels to enable JBL's Dual Bridge Technology™ (DBT) allowing the most efficient power transfer to the JBL Differential Drive® woofers. DP-1 and DP-2 DrivePack models incorporate Crown's BCA™ (Balanced Current Amplification) Class-I circuitry with temperature-compensated modulation and state of the art feedback circuitry. An extraordinarily efficient passive cooling system eliminates expensive and noisy fans, effecting heat dissipation for optimal cooling.



INPUT MODULES & CONNECTIVITY

JBL DrivePacks DP-1 and DP-2 are equipped with a modular input bay. Standard DPIP input modules from dbx feature analog audio inputs and sophisticated DSP technology incorporating digital pre-equalization filters, frequency-dividing networks, and limiter circuitry from one of the industry's most trusted names in signal processing. Classic dbx Limiting functionality, dbx Type IV® analog-to-digital converters, and full bandpass and crossover configurations are all packed into the standard input module on every JBL DrivePack unit. With JBL DrivePack, dbx's heritage of unrivaled system/loudspeaker control continues.

The optional DPDA input module allows most JBL VP Series systems to link seamlessly into Harman Professional's HiQnet system. The modular input design allows for future developments in audio distribution and networking topologies.



FEATURE LOADED

The VP Series also includes:

- JBL Differential Drive cone transducers
- JBL 2452H-SL 1.5" exit, 4" diaphragm compression driver
- Newly-created stylized, ergonomically designed powder-coated steel handle
- Multiple attachment points for ultimate rigging flexibility with overhead suspension



DPDA Input Module – HiQnet™ Network Compatible with AES Digital Audio and BSS OMNIDRIVE™ HD Signal Processing

DPDA Input Module

The DPDA Input Module can be used as a retrofit sub-assembly with any JBL DrivePack®-equipped loudspeaker system utilizing the DP-1, DP-2, or DP-3 amplifier modules. Upgrading to the DPDA module provides powered loudspeaker system users with AES/EBU digital audio capabilities, the sonic benefits of advanced signal processing features, and a variety of input and connectivity options.

The onboard 100 Mb Ethernet networking switch with daisy-chain capability allows for Remote Control and Monitoring via HiQnet System Architect™ software. Additionally, a rotary mechanical encoder switch provides easy array identification and box positioning, up to 99 different speaker positions and up to 99 different speaker arrays or locations.

Twenty type-selectable input filters (10 System and 10 Guest filters) are available for system equalization along with user-adjustable input delay of up to 2 seconds and many more user features.



key features

VP Series

- NEW 2452H-SL 4" DAMPED DIAPHRAGM HIGH-FREQUENCY COMPRESSION DRIVER
- JBL DRIVEPACK® TECHNOLOGY, CO-ENGINEERED WITH CROWN
- COMPREHENSIVE ON-BOARD DSP
- HIQNET™ SYSTEM ARCHITECT™ COMPATIBILITY
- OPTIONAL DPDA INPUT MODULE FOR AES/EBU DIGITAL AUDIO INPUT CONNECTIVITY
- DIFFERENTIAL DRIVE® LOW-FREQUENCY DRIVERS
- INTEGRATED RIGGING HARDWARE
- ERGONOMICALLY DESIGNED HANDLES

VP7210/95DP

The **VP7210/95DP** is a 10" two-way system with the 2452H-SL compression driver. This model features a 90°x 50° rotatable horn. The system is driven by an 875W continuous power three channel DPC-2 JBL DrivePack®.

VP7212MDP

The **VP7212MDP** is a dedicated 12" two-way floor monitor and features 2452H-SL 4" voice coil compression driver. The VP7212MDP is equipped with the JBL DrivePack model DPC-2 with 875W continuous power available.

VP7212/95DPC

The **VP7212/95DPC** is a 12" two-way compact system with a 2452H-SL compression driver. This model features a 90° x 50° PT waveguide. The system is equipped with the JBL DrivePack model DPC-2 with 875W of continuous power.

VP7215/95DPC

The **VP7215/95DPC** is a 15" two-way compact system with a 2452H-SL compression driver. This model features a 90° x 50° PT waveguide. The system is equipped with the JBL DrivePack model DPC-2 with 875W of continuous power.

VP7212/64DP (60° x 40°)

VP7212/95DP (90° x 50°)

The **VP7212/64DP** and **VP7212/95DP** are two-way speaker systems housing one 12" Differential Drive low frequency transducer and the new 2452H-SL compression driver. The VP7212 is available with either a 60° x 40° or 90° x 50° JBL Progressive Transition™ Waveguide.

VP7215/64DP (60° x 40°)

VP7215/95DP (90° x 50°)

The **VP7215/64DP** and **VP7215/95DP** are two-way speaker systems housing one 15" Differential Drive low frequency transducer and the new 2452H-SL compression driver. The VP7215 is available with either a 60° x 40° or 90° x 50° JBL Progressive Transition™ Waveguide.

VP7315/64DP

The **VP7315/64DP** is a three-way system housing one 15" Differential Drive low frequency transducer, the CMCD-82H 8" midrange transducer and the new 2452H-SL compression driver mounted on a JBL PT-K64-MHF Progressive Transition Waveguide.

VPSB7118DP

The **VPSB7118DP** subwoofer system features one 18" Differential Drive low frequency transducer. This model includes an integrated pole mount, and is sized to readily combine into arrays of various configurations using other models in the line.

specifications

	VP7210/95DP	VP7212MDP	VP7212/95DPC	VP7215/95DPC
SYSTEM TYPE	Self-Powered Two-way Speaker System	Self-Powered Two-way Speaker System	Self-Powered Two-way Speaker System	Self-Powered Two-way Speaker System
FREQUENCY RESPONSE	80 Hz – 20 kHz (±3 dB)	80 Hz – 18 kHz (±3 dB)	65 Hz – 18 kHz (±3 dB)	60 Hz – 18 kHz (±3 dB)
NOMINAL COVERAGE	90° x 50°	50° x 90°	90° x 50°	90° x 50°
DRIVEPACK POWER RATINGS	1750W Peak (875W Cont)	1750W Peak (875W Cont)	1750W Peak (875W Cont)	1750W Peak (875W Cont)
TRANSDUCERS: LF	10 in Differential Drive	12 in Differential Drive	12 in Differential Drive	15" Differential Drive
HF (MF)	2452H-SL 1.5" exit compression driver	2452H-SL 1.5" exit compression driver	2452H-SL 1.5" exit compression driver	2452H-SL 1.5" exit compression driver
HF (MF) HORN	JBL Progressive Transition™ Waveguide	JBL Progressive Transition™ Waveguide	JBL Progressive Transition™ Waveguide	JBL Progressive Transition™ Waveguide
FINISH	Black Duraflex™	Black Duraflex™	Black Duraflex™	Black Duraflex™
GRILLE	14-gauge perforated steel	14-gauge perforated steel	14-gauge perforated steel	14-gauge perforated steel
INPUT CONNECTOR	M/FM XLR	M/FM XLR	M/FM XLR	M/FM XLR
DIMENSIONS (H x W x D)	521 x 293 x 303 mm 20.5 x 11.5 x 11.9 in	346 x 565 x 413 mm 13.6 x 22.3 x 16.2 in	533 x 358 x 334 mm 21.0 x 14.1 x 13.1 in	613 x 434 x 359 mm 24.1 x 17.1 x 14.1 in
NET WEIGHT (each)	18.4 kg (40.5 lb)	20.7 kg (45.5 lb)	21.3 kg (47 lbs)	24.7 kg (55 lbs)
	VP7212/64DP & VP7212/95DP	VP7215/64DP & VP7215/95DP	VP7315/64DP	VPSB7118DP
SYSTEM TYPE	Self-Powered Two-way Speaker System	Self-Powered Two-way Speaker System	Self-Powered Three-way Speaker System	Self-Powered Sub-woofer System
FREQUENCY RESPONSE	60 Hz - 18 kHz (±3 dB)	45 Hz - 18 kHz (±3 dB)	45 Hz - 18 kHz (±3 dB)	35 Hz - 125 Hz (±3 dB)
NOMINAL COVERAGE	VP7212/64: 60 x 40 VP7212/95: 90 x 50	VP7215/64: 60 x 40 VP7215/95: 90 x 50	VP7315/64: 60 x 40	
DRIVEPACK POWER RATINGS	2200W Peak (1100W Cont)	2200W Peak (1100W Cont)	2200W Peak (1100W Cont)	3600W Peak (1800W Cont)
TRANSDUCERS: LF	12 in Differential Drive	15 in Differential Drive	15 in Differential Drive	18 in Differential Drive
HF (MF)	2452H-SL 1.5" exit compression driver	2452H-SL 1.5" exit compression driver	2452H-SL 1.5" exit compression driver CMCD-82H (8" Midrange)	
HF (MF) HORN	JBL Progressive Transition™ Waveguide	JBL Progressive Transition™ Waveguide	JBL PT-K64-MHF Progressive Transition™ Waveguide	
FINISH	Black Duraflex™	Black Duraflex™	Black Duraflex™	Black Duraflex™
GRILLE	14-gauge perforated steel	14-gauge perforated steel	14-gauge perforated steel	14-gauge perforated steel
INPUT CONNECTOR	Female XLR/Male XLR	Female XLR/Male XLR	Female XLR/Male XLR	Female XLR/Male XLR
INPUT CONNECTOR OPTION	DPCN (CobraNet compliant) 2 x RJ45 connectors + M/FM XLR	DPCN (CobraNet compliant) 2 x RJ45 connectors + M/FM XLR	DPCN (CobraNet compliant) 2 x RJ45 connectors + M/FM XLR	DPCN (CobraNet compliant) 2 x RJ45 connectors + M/FM XLR
DIMENSIONS (H x W x D)	701.8 x 383.8 x 523.5 mm 27.63 x 15.11 x 20.61 in	765.3 x 447.6 x 523.5 mm 30.13 x 17.62 x 20.61 in	914.4 x 528.3 x 624.8 mm 36 x 20.8 x 24.6 in	414.4 x 701.8 x 812.8 mm 20.25 x 27.63 x 32 in
NET WEIGHT (each)	35.4 kg (78 lb)	38.6 kg (85 lb)	44 kg (97 lb)	58.5 kg (129 lb)

Marquis Dance Club Series

MARQUIS
DANCE CLUB SERIES



As a club designer, your creativity, vision and passion are the heart of an electrifying experience, whether it's a world-class mega-club or an intimate lounge. Knowing this illuminated our vision in creating the new JBL Marquis Dance Club Series - specifically designed for the extreme requirements of large and mega-size clubs.

The Marquis Series comprises eight powerful multi-way systems and subwoofer models that combine JBL's extraordinary sound, proven reliability and state-of-the-art technology with striking architectural design and versatile configurability. From thumping mega dance floors to tranquil VIP lounges, from eclectic chill rooms to complex sound booths, the Marquis Series systematic loudspeaker designs are scalable to smaller venues, ultra lounges, and mega clubs alike. Regardless of the application, the Marquis Series is a multi faceted tool for you to achieve your vision.

Create the Ultimate Experience

The goal of every premier dance club designer is to create the ultimate space, outfitted with the best equipment, so gifted DJ's can express every creative impulse to drive an irresistible experience for everyone - on and off the dance floor. JBL knows what you need in order to accomplish this. JBL led the way in club loudspeaker design, helping to define club sound at the very beginning of the industry. During the disco boom of the 70's nearly all dance club systems utilized JBL loudspeaker components. The massive amount of engineering development since then, combined with JBL's driving passion and commitment to creating the best, highest performing sound systems in the dance world, make the Marquis Dance Series the premier sound system for the ultimate dance club experience.

Superb Architectural Design and Versatile Configurability

The Marquis Dance Series features stunning, high design that is fully complementary with premier club environments. Rugged as well as versatile, the Marquis Series is built to the highest professional standards to withstand continuous, demanding professional use. Whether you choose to deploy their stunning architectural features into your overall aesthetic, or configure them into the background, their technical performance is specifically designed for dance clubs to ensure your patrons will be immersed in the soul and depth of the music regardless of where they are in your club. Their wide array of configurability ensures compatibility with the specific design goals, power requirements and coverage needs of any environment you envision.

Stack Security and Precise Adjustment

Secure mounting in any floor configuration is assured by the JBL Marquis Dance Stacking Bracket kit (MDSB-1). Custom designed for the series, the brackets securely fasten multiple boxes to each other and mount into M10 rigging connections for further configurability.

The MDSB bracket adjusts the upper cabinet through 0, 5, 10, and 15 degrees of downward angle to accommodate precise adjustment of the coverage area.

Beautifully Durable

The ruggedized cabinet covering and architecturally designed grille pattern bring high-design to the overall look of the Marquis Series while providing superb protection for all components.

Marquis Dance Club Series

key features

- ▶ LEGENDARY JBL TECHNOLOGY
- ▶ OUTSTANDING PATTERN CONTROL
- ▶ VERSATILE CONFIGURATIONS
- ▶ SPECIFICALLY DESIGNED FOR PREMIER DANCE CLUBS

JBL Selenium Ultra High Frequency Bullet Drivers

Super high frequencies are handled by the MD1 Super Tweeter module, ensuring extremely high sensitivity and low distortion for transparent response, excellent coverage and long throw.

JBL Progressive Transition™ Waveguides

JBL's patented Progressive Transition™ Waveguides direct the sound of all the Marquis Series compression drivers to provide outstanding pattern control with smooth sound and extremely low distortion even at extraordinarily high dance club volume levels.

JBL Differential Drive® Technology

The entire complement of Marquis Series drivers employ JBL's patented Differential Drive technology which incorporates two voice coils and two magnetic gaps providing higher peak output with less power compression. The MD7 subwoofer also employs JBL's Vented Gap Cooling™ that provides immediate heat transfer for reduced operating temperatures. The result of these technologies is consistent sound quality even at non-stop, mega-club volumes

MARQUIS DANCE CLUB SERIES



specifications

	MD1	MD2	MD3	MD7
SYSTEM TYPE	Dual JBL Selenium Super Tweeters	High Power Mid-High Loudspeaker System	High Power Dual 15" Low-Frequency Loudspeaker	Ultra Long Excursion High Power Dual 18" Subwoofer
DRIVER	Dual ST400	Dual 2169H 8" MF Drivers; 2453H-SL HF Driver	Dual 2265H Woofers	Dual 2269H Woofers
POWER RATING (2 hrs. Continuous Pink Noise)	100W	MF 700W; HF 100W	1600W	4000W
SENSITIVITY: 1 W, 1 m	108 dB SPL	MF 109 dB SPL; HF 113 dB SPL	103 dB SPL	100 dB SPL (25 - 150 Hz)
FREQUENCY RANGE (-10 dB)	5.5 kHz - 20 kHz	270 Hz - 20 kHz	60 Hz - 400 Hz	20 Hz - 200 Hz
FREQUENCY RESPONSE (±3 dB)	6.5 kHz - 20 kHz	320 Hz - 20 kHz	70 Hz - 350 Hz	25 Hz - 150 Hz
DIMENSIONS (H x W x D)	184.2 x 421.3 x 305.8 mm	1142.8 x 844.8 x 508.5 mm	1142.8 x 599.8 x 762.5 mm	762 x 1121.7 x 965.7 mm
NET WEIGHT (each)	8.2 kg (18 lb)	45 x 33.3 x 20 in	45 x 22 x 30 in	30 x 44.2 x 38 in
		52.2 kg (115 lb)	73.0 kg (161 lb)	108.0 kg (238.0 lb)
	MD52	MD55	MD46	MD49
SYSTEM TYPE	Medium Power 90 x 50 12" 2-way Full-Range Loudspeaker	Medium Power 90 x 50 15" 2-way Full-Range Loudspeaker	High Power 60 x 40 Dual 15" 4-way Full-Range Loudspeaker System	High Power 90 x 50 Dual 15" 4-way Full-Range Loudspeaker System
DRIVER	262H Woofer; 2408H-1 HF Driver	265H Woofer; 2408H-1 HF Driver	LF: Dual 2265H; MF: CMCD-82H; HF: 2432H; UHF: Dual ST400 ST	LF: Dual 2265H; MF: CMCD-82H; HF: 2432H; UHF: Dual ST400 ST
POWER RATING (2 hrs. Continuous Pink Noise)	550W	550W	LF: 2000W; MF: 35; HF: 100W; UHF: 100W	LF: 2000W; MF: 350W; HF: 100W; UHF: 100W
SENSITIVITY: 1 W, 1 m	96 dB SPL	97 dB SPL	LF: 98 dB SPL; MF: 108 dB SPL; HF: 113 dB SPL; UHF: 107 dB SPL	LF: 98 dB SPL; MF: 108 dB SPL; HF: 113 dB SPL; UHF: 107 dB SPL
FREQUENCY RANGE (-10 dB)	39 Hz - 20 kHz	39 Hz - 20 kHz	42 Hz - 20 kHz	42 Hz - 20 kHz
FREQUENCY RESPONSE (±3 dB)	53 Hz - 19 kHz	51 Hz - 19 kHz	48 Hz - 19 kHz	48 Hz - 19 kHz
DIMENSIONS (H x W x D)	711.2 x 369.4 x 400.1 mm	781.1 x 417.9 x 457.7 mm	1524 x 559.8 x 655.3 mm	1524 x 559.8 x 655.3 mm
NET WEIGHT (each)	28 x 14.5 x 15.8 in	30.8 x 16.5 x 18 in	60 x 22.0 x 25.9 in	60 x 22.0 x 25.9 in
	20.6 kg (45.5 lb)	23.8 kg (52.5 lb)	65.8 kg (145 lb)	65.8 kg (145 lb)

Harman Pro Group | 2013

Section: 07



VLA Series

Variable Line Array Loudspeakers

key features

- HORN-LOADED LINE ARRAY
- STANDARD & HIGH-OUTPUT VERSIONS AVAILABLE
- COMBINES PD700 & VT TECHNOLOGIES

VLA SERIES

variable line array



Variable Line Array Series (VLA Series) is a revolutionary product providing high-impact sound reinforcement at throw distances beyond the reach of traditional loudspeaker designs. The modular design concept provides the system designer the ability to build large line array systems for larger venue applications or to design smaller line array systems for use as distributed clusters in arenas, domed stadiums and larger performance spaces, including large houses of worship.

VLA is designed specifically for permanent installation applications where even coverage, intelligibility, and levels capable of overcoming crowd noise are required.

VLA modules are based on the same advanced engineering used in the highly successful VERTEC® Series line array systems. VLA provides six large format horn-loaded modules with three horizontal horn coverage patterns (30°, 60°, & 90°). This modular concept provides the designer the additional flexibility to vary the horizontal pattern within a vertical array by incorporating different modules with wider or narrower coverage patterns while still maintaining the vertical directivity.

	VLA301	VLA301H	VLA601	VLA601H	VLA901	VLA901H
SYSTEM TYPE	Three-way Full Range Loudspeaker	High Output Three-Way Full Range Loudspeaker	Three-way Full Range Loudspeaker	High Output Three-Way Full Range Loudspeaker	Three-way Full Range Loudspeaker	High Output Three-Way Full Range Loudspeaker
FREQUENCY RESPONSE ¹	58 Hz - 12 kHz (± 3 dB)	58 Hz - 12 kHz (± 3 dB)	58 Hz - 12 kHz (± 3 dB)	58 Hz - 12 kHz (± 3 dB)	58 Hz - 12 kHz (± 3 dB)	58 Hz - 12 kHz (± 3 dB)
HORIZONTAL COVERAGE	30°	30°	60°	60°	90°	90°
SENSITIVITY ⁴ : 1 W, 1 m LF/MF/HF	100/111/120 dB SPL	100/111/119 dB SPL	100/109/117 dB SPL	100/110/117 dB SPL	99/106/115 dB SPL	99/108/115 dB SPL
NOMINAL IMPEDANCE LF/MF/HF	4 ohms/4 ohms/ 16 ohms	4 ohms/8 ohms/ 4 ohms	4 ohms/4 ohms/ 16 ohms	4 ohms/8 ohms/ 4 ohms	4 ohms/4 ohms/ 16 ohms	4 ohms/8 ohms/ 4 ohms
SYSTEM POWER RATING ² : LF	1600 W (6400 W peak), 2 hrs. 1200 W (4800 W peak), 100 hrs.	1600 W (6400 W peak), 2 hrs. 1200 W (4800 W peak), 100 hrs.	1600 W (6400 W peak), 2 hrs. 1200 W (4800 W peak), 100 hrs.	1600 W (6400 W peak), 2 hrs. 1200 W (4800 W peak), 100 hrs.	1600 W (6400 W peak), 2 hrs. 1200 W (4800 W peak), 100 hrs.	1600 W (6400 W peak), 2 hrs. 1200 W (4800 W peak), 100 hrs.
MF	700 W (2800 W peak), 100 hrs.	1400 W (5600 W peak), 100 hrs.	700 W (2800 W peak), 100 hrs.	1400 W (5600 W peak), 100 hrs.	700 W (2800 W peak), 100 hrs.	1400 W (5600 W peak), 100 hrs.
HF	225 W (900 W peak), 2 hrs.	450 W (1800 W peak), 2 hrs.	225 W (900 W peak), 2 hrs.	450 W (1800 W peak), 2 hrs.	225 W (900 W peak), 2 hrs.	450 W (1800 W peak), 2 hrs.
MAXIMUM SPL ³ : LF	132 dB SPL continuous average	132 dB SPL continuous average	132 dB SPL continuous average	132 dB SPL continuous average	131 dB SPL continuous average	131 dB SPL continuous average
MF	139 dB SPL continuous average	142 dB SPL continuous average	137 dB SPL continuous average	141 dB SPL continuous average	134 dB SPL continuous average	139 dB SPL continuous average
HF	142 dB SPL continuous average	146 dB SPL continuous average	141 dB SPL continuous average	144 dB SPL continuous average	139 dB SPL continuous average	142 dB SPL continuous average
TRANSDUCERS: LF	2 x 2226H (380 mm/ 15 in)	2 x 2226H (380 mm/ 15 in)	2 x 2226H (380 mm/ 15 in)	2 x 2226H (380 mm/ 15 in)	2 x 2226H (380 mm/ 15 in)	2 x 2226H (380 mm/ 15 in)
MF	2 x CMCD82H (200 mm/8 in cone)	4 x CMCD82H (200 mm/8 in cone)	2 x CMCD82H (200 mm/8 in cone)	4 x CMCD82H (200 mm/8 in cone)	2 x CMCD82H (200 mm/8 in cone)	4 x CMCD82H (200 mm/8 in cone)
HF	3 x 2431H (38 mm/ 1 1/2 in)	6 x 2431H (38 mm/ 1 1/2 in)	3 x 2431H (38 mm/ 1 1/2 in)	6 x 2431H (38 mm/ 1 1/2 in)	3 x 2431H (38 mm/ 1 1/2 in)	6 x 2431H (38 mm/ 1 1/2 in)
ENCLOSURE	12-ply birch plywood	12-ply birch plywood	12-ply birch plywood	12-ply birch plywood	12-ply birch plywood	12-ply birch plywood
FINISH	DuraFlex™	DuraFlex™	DuraFlex™	DuraFlex™	DuraFlex™	DuraFlex™
INPUT CONNECTORS	Neutrik Speakon® NL8 Plus covered barrier strip	Neutrik Speakon® NL8 Plus covered barrier strip	Neutrik Speakon® NL8 Plus covered barrier strip	Neutrik Speakon® NL8 Plus covered barrier strip	Neutrik Speakon® NL8 Plus covered barrier strip	Neutrik Speakon® NL8 Plus covered barrier strip
DIMENSIONS (H x W x D)	533 x 1351 x 1384 mm 21.0 x 53.2 x 54.5 in	533 x 1351 x 1384 mm 21.0 x 53.2 x 54.5 in	533 x 1351 x 772 mm 21.0 x 53.2 x 30.4 in	533 x 1351 x 772 mm 21.0 x 53.2 x 30.4 in	533 x 1351 x 640 mm 21.0 x 53.2 x 25.2 in	533 x 1351 x 640 mm 21.0 x 53.2 x 25.2 in
NET WEIGHT (each)	140 kg (309 lb)	155 kg (342 lb)	102 kg (225 lb)	116 kg (256 lb)	96 kg (211 lb)	109 kg (241 lb)

¹ With recommended active tuning. (Digital signal processing is required in order to achieve specified performance.)

² AES standard, one decade pink noise with 6 dB crest factor

within device's operational band, free air. Standard AES ratings are specified for low-frequency transducers.

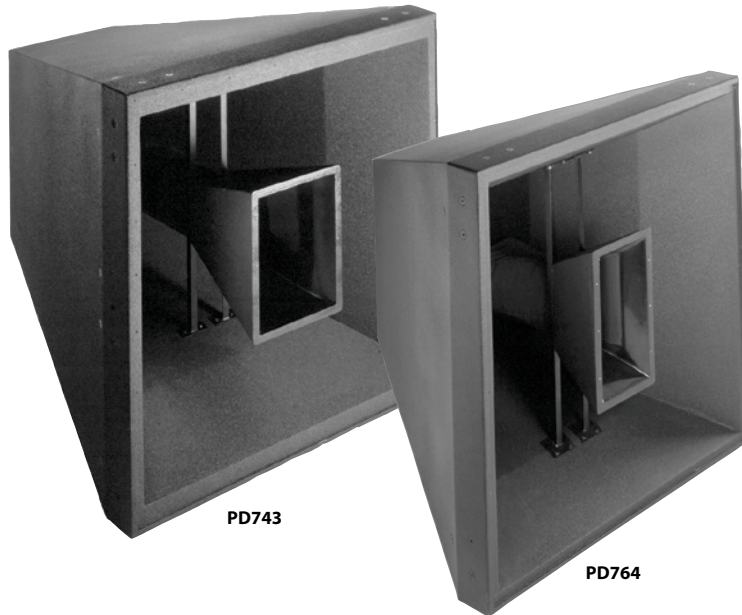
³ Calculated based on power rating and sensitivity.

⁴ Anechoic sensitivity in free field, no additional sensitivity gains from boundary loading.

Precision Directivity® PD700

key features

- FSA™ FORWARD STEERED ARRAY ENCLOSURE CONFIGURATIONS
- PATTERN CONTROL MAINTAINED WELL BELOW 400 Hz



PD743

PD764

One of the challenges in large arenas, stadiums, houses of worship and performance spaces is to provide quality sound to every seat with the volume and clarity demanded by today's concert, sporting and special events. JBL Professional's Precision Directivity® (PD) line of speakers uses a full range, full bandwidth total system approach that allows contractors and consultants to design a fully integrated sound system solving the audio challenges inherent to these types of large installations.

PD743 (40° x 30°) AND PD764 (60° x 40°)

The PD743 and PD764 mid-high loudspeaker systems provide high-impact sound reinforcement at throw distances that are beyond the reach of traditional single-driver designs. A single module produces greater than 104 dB SPL (continuous) at distances of 65 m (215 ft) with a 40° by 30° coverage pattern (PD743) or a 60° by 40° coverage pattern (PD764). These systems may be used in arrays with other PD Series modules or singly as part of a distributed system.

specifications

	PD743	PD764
SYSTEM TYPE	Mid High Loudspeaker System	Mid High Loudspeaker System
FREQUENCY RANGE	150 Hz - 17 kHz (-10 dB)	150 Hz - 17 kHz (-10 dB)
FREQUENCY RESPONSE	200 Hz - 15 kHz (± 3 dB)	200 Hz - 15 kHz (± 3 dB)
NOMINAL COVERAGE	40° x 30° (H x V)	60° x 40° (H x V)
SENSITIVITY (1 W, 1 m)	MF:111 dB, HF: 118 dB	MF:109 dB, HF: 116 dB
NOMINAL IMPEDANCE	MF:8 ohms, HF: 16 ohms	MF:8 ohms, HF: 16 ohms
INPUT POWER RATING	MF:700 W, AES; 2800 W peak HF:150 W, AES; 600 W peak	MF:700 W, AES; 2800 W peak HF:150 W, AES; 600 W peak
TRANSDUCERS	2 x 2250J (203 mm/8 in) 2 x 2430H (75 mm/3 in)	2 x 2250J (203 mm/8 in) 2 x 2430H (75 mm/3 in)
ENCLOSURE	Dual Trapezoidal 25° V, 35° H	Dual Trapezoidal 35° V, 55° H
FINISH	Black DuraFlex™	Black DuraFlex
INPUT CONNECTORS	1 x NL4 Neutrik® Speakon®	1 x NL4 Neutrik Speakon
DIMENSIONS (H x W x D)	991 x 991 x 1146 mm 39 x 39 x 45.1 in	991 x 991 x 883 mm 39 x 39 x 34.75 in
NET WEIGHT (each)	111.4 kg (245 lb)	97.7 kg (215 lb)



Honda Center, Anaheim, California

Precision Directivity® PD5000 Series

The PD5000 Series joins JBL's broad lineup of installed sound loudspeakers, complementing the larger PD700 mid-high cabinets with a more compact size and supplementing the smaller AE Series cabinets with higher SPL capability and larger horns for pattern control to a lower frequency. The PD5000 Series loudspeakers deliver high power and constant coverage in a low profile form.

Featured across the PD5000 Series, are 24 by 24 inch PT™ Progressive Transition mid-frequency rotatable waveguides that provide versatility, excellent pattern control with low distortion and extremely natural sound character. This is an evolution of the waveguide technology of the successful JBL Professional Application Engineered™ (AE) install series. Also incorporating sophisticated, steep-slope passive crossover networks minimize band overlap, further enhancing off-axis pattern control. User accessible internal switches allow for a fully active crossover.

PD5200/43 (40° x 30°)

PD5200/64 (60° x 40°)

PD5200/95 (90° x 50°)

The PD5200 Series Precision Directivity mid-high frequency loudspeakers are designed for applications requiring high output capability with excellent pattern control.

The CMCD-82H cone midrange compression driver consists of a driver/phasing plug assembly providing high output with low distortion. CMCD-82H's extended response allows for smoother transition to the high frequency driver and the smaller entrance diameter into the waveguide provides for better pattern control. The internal 200 mm (8 inch) CMCD-82H features a high power neodymium Differential Drive® dual voice coil design. The 2431H large format high frequency compression driver utilizes a neodymium magnet and aluminum diaphragm to deliver clear and intelligible high frequency projection, extended frequency response, and low distortion at even the highest drive levels.

PD5212/43 (40° x 30°)

PD5212/64 (60° x 40°)

PD5212/95 (90° x 50°)

The PD5212 Series Precision Directivity full range two-way loudspeakers are designed for applications requiring high output capability with excellent pattern control. The speakers can be utilized alone in music or speech systems where frequency extension to 80 Hz is adequate or combined with subwoofers to create extended bandwidth full range systems.

The M222-8A 300 mm (12 in) low frequency transducer features high sensitivity and low power compression for high continuous SPL capability. It is horn-loaded for additional sensitivity and improved pattern control. A newly designed low frequency phasing plug extends frequency response, providing smoother transition to the high frequency driver. The 2451H-1 large format high frequency compression driver utilizes a neodymium magnet and pure titanium diaphragm to deliver clear and intelligible high frequency projection, extended frequency response, and low distortion at even the highest drive levels.

PD5322/43 (40° x 30°)

PD5322/64 (60° x 40°)

PD5322/95 (90° x 50°)

The PD5322 Precision Directivity full range, three way loudspeakers are designed for applications requiring high output sensitivity with excellent pattern control. They can be utilized standalone in demanding music or speech systems where low frequency extension to 40 Hz is required.

The low frequency section features two 2206H 300 mm (12 in) VGC™ Vented Gap Cooled low frequency transducers featuring high sensitivity and low power compression for high continuous SPL capability. A newly designed loading plate covering the slot loaded low frequency transducers provides the highest possible sensitivity, low frequency output and system reliability.

The mid and high frequency sections are hornloaded for additional low-mid and midrange sensitivity and improved pattern control. The CMCD-82H cone midrange compression driver consists of a driver/phasing plug assembly providing high output with low distortion. The integral 200 mm (8 in) cone driver features a high power neodymium Differential Drive® dual, voice coil design. The 2431H large format high frequency compression driver utilizes a neodymium magnet and aluminum diaphragm to deliver clear and intelligible high frequency projection, extended frequency response, and low distortion at even the highest drive levels.

PD5000 Series loudspeaker inputs include both Speakon® and CE-compliant covered barrier strips. The cabinets are fitted with twenty M10 threaded suspension points, supporting a wide variety of installation approaches. All cabinets are constructed with 11 ply birch and finished with black DuraFlex™.

PD5122

The PD5122 is intended for use as a flown or ground supported, high power low frequency module used in conjunction with mid/high-only or full range systems of the PD5000 series to construct arrays with extended low frequency pattern control.

Low frequency transducers are the 2206H 300 mm (12 in) VGC™ Vented Gap Cooled drivers. They deliver excellent low frequency extension with minimal power compression and low distortion plus high sensitivity and power handling.

PD5125

The PD5125 is a high power low frequency loudspeaker comprised of two 380 mm (15 in) VGC Vented Gap Cooled low frequency drivers in a front-loaded, vented configuration. Though it is intended for use as a flown or ground supported, high power low frequency module used in conjunction with mid/high or full range systems of the PD5000 and PD700 series, the PD5125 will perform well in any application where high output low bass is required.

Low frequency transducers are the 2226H 380 mm (15 in) VGC Vented Gap Cooled drivers. They deliver excellent low frequency extension with minimal power compression and low distortion plus high sensitivity and power handling. Large vent area assures minimal port compression and low distortion at high output levels.

key features

PD5000 Series

- CLEAR, INTELLIGIBLE HIGH FREQUENCY PROJECTION
- LARGE PT™ PROGRESSIVE TRANSITION WAVEGUIDES FOR PATTERN CONTROL, LOW DISTORTION AND SMOOTH RESPONSE
- ROTATABLE WAVEGUIDES FOR HORIZONTAL OR VERTICAL CABINET ORIENTATION
- INTEGRAL, SOPHISTICATED STEEP-SLOPE PASSIVE CROSSOVER NETWORKS WITH BIAMP/ PASSIVE SWITCHABLE CROSSOVER MODES
- TWO FULLY-COMPATIBLE LOW FREQUENCY LOUSPEAKERS FOR INSTALLATION VERSATILITY



PD5200/43, PD5200/64 (shown)
PD5200/95



PD5212/43 (shown), PD5212/64
PD5212/95



PD5322/43, PD5322/64
PD5322/95 (shown)

specifications

	PD5200/43	PD5200/64	PD5200/95	PD5212/43	PD5212/64	PD5212/95
SYSTEM TYPE	Mid-High Frequency	Mid-High Frequency	Mid-High Frequency	Two-Way Full-Range	Two-Way Full-Range	Two-Way Full-Range
FREQUENCY RANGE ¹	200 Hz - 18 kHz (-10 dB)	200 Hz - 18 kHz (-10 dB)	200 Hz - 18 kHz (-10 dB)	80 Hz - 18 kHz (-10 dB)	80 Hz - 18 kHz (-10 dB)	80 Hz - 18 kHz (-10 dB)
FREQUENCY RESPONSE	240 Hz - 16 kHz (±3 dB)	240 Hz - 16 kHz (±3 dB)	240 Hz - 16 kHz (±3 dB)	90 Hz - 16 kHz (±3 dB)	90 Hz - 16 kHz (±3 dB)	90 Hz - 16 kHz (±3 dB)
SYSTEM SENSITIVITY: 1 W, 1m	111 dB SPL (Passive Mode)	110 dB SPL (Passive Mode)	109 dB SPL (Passive Mode)	109 dB SPL (Passive Mode)	107 dB SPL (Passive Mode)	106 dB SPL (Passive Mode)
NOMINAL COVERAGE	40° x 30°	60° x 40°	90° x 50°	40° x 30°	60° x 40°	90° x 50°
TRANSDUCER POWER RATING (AES) ²	MF: 350 W (1400 W pk), 100 hrs HF: 75 W (300 W pk), 2 hrs	MF: 350 W (1400 W pk), 100 hrs HF: 75 W (300 W pk), 2 hrs	MF: 350 W (1400 W pk), 100 hrs HF: 75 W (300 W pk), 2 hrs	LF: 400 W (1600 W pk), 2 hrs LF: 300 W (1200 W pk), 100 hrs HF: 75 W (300 W pk), 2 hrs	LF: 400 W (1600 W pk), 2 hrs LF: 300 W (1200 W pk), 100 hrs HF: 75 W (300 W pk), 2 hrs	LF: 400 W (1600 W pk), 2 hrs LF: 300 W (1200 W pk), 100 hrs HF: 75 W (300 W pk), 2 hrs
LONG-TERM ³ LF POWER RATING (IEC): MF/HF	300 W (1200 W peak), 100 hrs	300 W (1200 W peak), 100 hrs	300 W (1200 W peak), 100 hrs	300 W (1200 W peak), 100 hrs	300 W (1200 W peak), 100 hrs	300 W (1200 W peak), 100 hrs
MAXIMUM SPL: ⁴ LF Cont. Avg. MF HF	137 dB SPL (143 dB peak) 135 dB SPL (141 dB peak) 136 dB SPL (142 dB peak)	135 dB SPL (141 dB peak) 135 dB SPL (141 dB peak) 135 dB SPL (141 dB peak)	134 dB SPL (140 dB peak) 133 dB SPL (139 dB peak) 133 dB SPL (139 dB peak)	137 dB SPL (143 dB peak) 135 dB SPL (141 dB peak) 134 dB SPL (140 dB peak)	135 dB SPL (141 dB peak) 132 dB SPL (138 dB peak)	134 dB SPL (140 dB peak) 133 dB SPL (139 dB peak) 131 dB SPL (137 dB peak)
PASSIVE MODE: MF/HF						
ENCLOSURE	Trapezoidal, 12.5° side angles	Trapezoidal, 12.5° side angles	Trapezoidal, 12.5° side angles	Trapezoidal, 12.5° side angles	Trapezoidal, 12.5° side angles	Trapezoidal, 12.5° side angles
DIMENSIONS (H x W x D)	991 x 673 x 897 mm 39.0 x 26.5 x 35.3 in	991 x 673 x 706 mm 39.0 x 26.5 x 27.8 in	991 x 673 x 706 mm 39.0 x 26.5 x 27.8 in	991 x 673 x 897 mm 39.0 x 26.5 x 35.3 in	991 x 673 x 706 mm 39.0 x 26.5 x 27.8 in	991 x 673 x 706 mm 39.0 x 26.5 x 27.8 in
NET WEIGHT (each)	69.0 kg (152 lb)	58.8 kg (130 lb)	58.8 kg (130 lb)	75.5 kg (175 lb)	69.0 kg (152 lb)	69.0 kg (152 lb)

	PD5322/43	PD5322/64	PD5322/95	PD5122	PD5125	
SYSTEM TYPE	Three-Way Full-Range	Three-Way Full-Range	Three-Way Full-Range	Slot-Loaded Low Frequency	Dual 15" Low Frequency	
FREQUENCY RANGE ¹	41 Hz - 17 kHz (-10 dB)	41 Hz - 17 kHz (-10 dB)	41 Hz - 17 kHz (-10 dB)	41 Hz - 1 kHz (-10 dB)	37 Hz - 2.5 kHz (-10 dB)	
FREQUENCY RESPONSE	49 Hz - 15 kHz (±3 dB)	49 Hz - 15 kHz (±3 dB)	49 Hz - 15 kHz (±3 dB)	49 Hz - 300 Hz (±3 dB)	42 Hz - 2.1 kHz (±3 dB)	
SYSTEM SENSITIVITY: 1 W, 1m	111 dB SPL (Passive Mode)	110 dB SPL (Passive Mode)	109 dB SPL (Passive Mode)	96 dB (60 Hz - 250 Hz) ⁵	103 dB (50 Hz - 125 Hz) ⁵	
NOMINAL COVERAGE	40° x 30°	60° x 40°	90° x 50°			
TRANSDUCER POWER RATING (AES) ²	LF: 1600 W (6400 W pk), 2 hrs LF: 1200 W (4800 W pk), 100 hrs MF: 350 W (1400 W pk), 100 hrs HF: 75 W (300 W pk), 2 hrs	LF: 1600 W (6400 W pk), 2 hrs LF: 1200 W (4800 W pk), 100 hrs MF: 350 W (1400 W pk), 100 hrs HF: 75 W (300 W pk), 2 hrs	LF: 1600 W (6400 W pk), 2 hrs LF: 1200 W (4800 W pk), 100 hrs MF: 350 W (1400 W pk), 100 hrs HF: 75 W (300 W pk), 2 hrs	1600 W (6400 W pk) 2 hrs ²	1600 W (6400 W pk) 2 hrs ²	
LONG-TERM ³ LF POWER RATING (IEC): MF/HF	1200 W (4800 W pk) 300 W (1200 W pk), 100 hrs	1200 W (4800 W pk) 300 W (1200 W pk), 100 hrs	1200 W (4800 W pk) 300 W (1200 W pk), 100 hrs	1200 W (4800 W pk), 100 hrs ⁶	1200 W (4800 W pk), 100 hrs ⁶	
MAXIMUM SPL: ⁴ LF Cont. Avg. MF HF	128 dB SPL (134 dB peak) 137 dB SPL (143 dB peak) 135 dB SPL (141 dB peak)	128 dB SPL (134 dB peak) 135 dB SPL (141 dB peak) 135 dB SPL (141 dB peak)	128 dB SPL (134 dB peak) 134 dB SPL (140 dB peak) 133 dB SPL (139 dB peak)	128 dB SPL (134 dB pk) ⁴	136 dB SPL (142 pk) (50 Hz - 125 Hz) ⁴	
PASSIVE MODE: MF/HF						
ENCLOSURE	Trapezoidal, 15° side angles	Trapezoidal, 15° side angles	Trapezoidal, 15° side angles	Trapezoidal, 15° side angles	Trapezoidal, 10° side angles	
DIMENSIONS (H x W x D)	991 x 673 x 897 mm 39.0 x 26.5 x 35.3 in	991 x 673 x 706 mm 39.0 x 26.5 x 27.8 in	991 x 673 x 706 mm 39.0 x 26.5 x 27.8 in	357 x 673 x 706 mm 14.1 x 26.5 x 27.8 in	991 x 476 x 691 mm 39 x 18.75 x 27.2 in	
NET WEIGHT (each)	87.3 kg (192 lb)	77 kg (170 lb)	77 kg (170 lb)	36.4 kg (80 lb)	53.4 kg (118 lb)	

¹ In bi-amp mode, with recommended active tuning.
² AES standard, one decade pink noise with 6 dB crest factor within device's operational band, free air. Standard AES 2 hr rating plus long-term 100 hr rating are specified for low-frequency transducers.
³ IEC standard, full bandwidth pink noise with 6 dB crest factor, 100 hours, passive mode.
⁴ Calculated based on power rating and sensitivity, exclusive of power compression.
⁵ Anechoic sensitivity in free field, no additional sensitivity gains from boundary loading.
⁶ AES standard, one decade pink noise with 6 dB crest factor, in cabinet, long-term 100 hr rating.

Application Engineered™ Series



AE Series loudspeakers are ideal for a wide variety of fixed installation applications including performing arts facilities, theatrical sound design, auditoriums, houses of worship, live music clubs, dance-clubs/discotheques, sports facilities and themed entertainment venues. The special mid-high frequency models can be used without LF reinforcement in voice-only PA and delay-fill applications. The smaller models are ideal in lecture halls and corporate learning centers as well as in delay-fill locations of larger systems.

Scaled System Design Approach

AE Series models provide a wide variety of building blocks for your system design, stair-stepped to give you just the right solution for your installation.

Within the AE Series are three power levels. The high output level models are found in the 7000 and 6000 Series, the medium output models are found in the 5000 and 4000 Series, and the lower output power level is found in the 2000 Series.

Waveguide Scaling

Sometimes you need maximum pattern control. Other times the speaker needs to be as compact as possible. [AM] models are performance-maximized for the greatest pattern control. [AC] models are compact speakers that fit in areas where a smaller frontal profile is required.

Selectable Crossover Mode

Many AE Series speakers offer selectable crossover modes: tri-amp/bi-amp or bi-amp/ passive switchable.

Sophisticated Crossover Networks

AE Series models incorporate sophisticated crossover designs for outstanding sound quality and

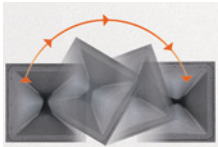
consistent coverage. To minimize overlap between adjacent frequency bands, steep slopes are utilized in passive crossovers — most are 4th order (24 dB/octave). This reduces off-axis lobing, providing consistent coverage throughout the crossover region. Conjugate networks are added in some models to fine tune the frequency response for optimum sound quality.



There are 9 high-power 2-way full-range models. Four are shown here and five on the following page.

AE SERIES

application engineered



Rotatable Waveguides

The space often dictates how a speaker needs to be oriented. All [AM] two-way and three-way models include a rotatable waveguide, allowing the speaker to be installed in either vertical or horizontal orientation.

Versatile Model Options

All AE Series speakers are available in several versions for matching décor or for outdoor use. Any model can be finished in white (-WH) or left unfinished and ready to paint (-UF). Additionally, two degrees of weather resistance are available. For many environments the basic weather resistance option (-WRC) is suitable. An extra thick DuraFlex™ coating, multilayer grille and component treatments provide excellent environmental protection. For extreme environments, with high humidity and/or rapid temperature cycling, a maximum weather treatment (-WRX) adds a full fiberglass covering of the cabinet. AE Series brackets and overhead suspension accessories are also available.

Legendary JBL Transducers

AE Series incorporates the legendary reliability of JBL's VGC™ Vented Gap Cooled drivers, augmented by today's new generation of JBL compression drivers and neodymium Differential Drive® cone transducers. Where reliability is important, JBL transducers are known as the best, most reliable drivers in the business.



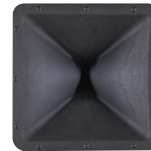
Differential Drive® Technology

JBL's exclusive dual voice coil – dual gap Differential Drive technology is at the core of AM5212, AM5215, AM7212, AM7215, AM7315, AM7200 and AL7115 as well as the

ASB6112, ASB6115, ASB6125, ASB7118 and ASB7128 subwoofer models.

Patented in 1995, this groundbreaking JBL technology dramatically reduces driver weight while greatly enhancing all critical performance parameters: frequency response, power output, and distortion.

The Differential Drive technology features a unique design with heat sinks integrated into the cast aluminum frame. The dual voice coil and dual gap places the neodymium magnets inside the dual voice coil assembly, completing the magnetic circuit without the heavy surrounding steel structure of conventional drivers.



PT™ Progressive Transition Waveguides

JBL's new patent pending Progressive Transition Waveguides represent the latest in horn technology.

In addition to providing smooth, low distortion sound, PT Waveguides deliver uniform off-axis frequency response to every point within the intended coverage area — not just in the horizontal and vertical planes — resulting in superior array-ability of multiple loudspeaker systems. PT Waveguides combine outstanding pattern control with undistorted sound for natural music and intelligible speech.

CMCD™ Cone Midrange Compression Drivers

Incorporated into all cone midrange models — patented CMCD technology is more than a simple displacement plug. In addition to providing increased output and lower distortion, this cone-based true compression driver design extends operational bandwidth (both up and down in frequency) to cover the entire vocal range seamlessly, allows for better waveguide pattern control, and improves phase coherency of the midrange signal for clearer, more intelligible audio quality.



key features

- ▶ VERSATILE SCALED SYSTEM APPROACH
- ▶ VGC™ DRIVERS AND DIFFERENTIAL DRIVE® CONE TRANSDUCERS
- ▶ PT™ PROGRESSIVE TRANSITION WAVEGUIDES FOR EXCELLENT PATTERN CONTROL



2432H 75mm (3") voice coil, 1.5" exit compression driver is used all AM7200, AM7315, AM7212 and AM7215 Models



Large mouth rotatable Progressive Transition™ waveguides for precise directivity control are used in all AM5212, AM5215, AM7212, and AM7215 models



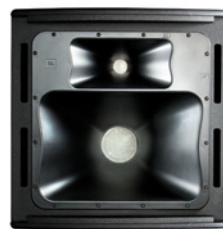
JBL's patented dual voice coil – dual gap Differential Drive technology is at the core of all AM5000 and AM7000 Series loudspeaker systems.

AE SERIES

application engineered



AM7315/xx



AM7200/xx

AM | Maximized 3-Way

SYSTEM TYPE	AM7315/95 & /64	AM7200/95 & /64
FREQUENCY RANGE	High-power Three-way 38 Hz - 20 kHz (-10 dB)	High-power Mid-high 260 Hz - 20 kHz (-10 dB)
FREQUENCY RESPONSE	45 Hz - 18 kHz (± 3 dB)	330 Hz - 20 kHz (± 3 dB)
NOMINAL COVERAGE	AM7315/95 - 90° x 50° AM7315/64 - 60° x 40°	AM7200/95 - 90° x 50° AM7200/64 - 60° x 40°
TRANSUCER	LF 1000W MF 350W HF 100W	350W 100W
POWER RATING(AES)	600W (2400W peak) 200W (800W peak)	200W (800W peak)
LONG-TERM POWER RATING(IEC): MF/HF	126/132 dB 133/139 dB 133/139 dB	133/139 dB 133/139 dB
MAXIMUM SPL 1: LF MF HF	133/139 dB	
BI-AMP MODE: MF/HF	133/139 dB	
SELECTABLE CROSSOVER MODES	Bi-amp/Tri-amp	Bi-amp/Passive
SUSPENSION	13 points	13 points
DIMENSIONS (H x W x D)	967 x 561 x 657 mm 38.1 x 22.1 x 25.9 in	548 x 561 x 657 mm 21.6 x 22.1 x 25.9 in
NET WEIGHT (each)	45.8 kg (101 lb)	27.2 kg (60 lb)

AE SERIES

application engineered

INSTALLATION PRODUCTS



AM7212/xx



AM7215/xx



AM5212/xx



AM5215/xx

AM | Maximized 2-Way

SYSTEM TYPE
FREQUENCY RANGE
FREQUENCY RESPONSE
NOMINAL COVERAGE

LF (2 Hours)
TRANSDUCER LF (100 Hours)
POWER RATING: HF (2 Hours)
LONG-TERM POWER RATING(IEC)
(Continuous/Program/Peak)

MAXIMUM SPL¹: LF
(Bi-Amp Mode) HF

SELECTABLE CROSSOVER MODES

SUSPENSION

DIMENSIONS
(H x W x D)

NET WEIGHT (each)

AM7212/64-66-95-00-26

High-power 12" Two-way
36 Hz - 20 kHz (-10 dB)
42 Hz - 18 kHz (± 3 dB)
AM7212/64: 60° x 40°
AM7212/66: 60° x 60°
AM7212/95: 90° x 50°
AM7212/00: 100° x 100°
AM7212/26: 120° x 60°

1000 W (4000 W peak)
700 W (2800 W peak)
100 W (400 W peak)
600 / 1200 / 2400 W

126 dB
135 dB

Passive/Bi-Amp
15 points (M10)
713 x 371 x 458 mm
28.06 x 14.6 x 18.1 in
23.1 kg (51 lb)

AM7215/64-66-95-26

High-power 15" Two-way
34 Hz - 20 kHz (-10 dB)
40 Hz - 18 kHz (± 3 dB)
AM7215/64: 60° x 40°
AM7215/66: 60° x 60°
AM7215/95: 90° x 50°
AM7215/26: 120° x 60°

1000 W (4000 W peak)
750 W (3000 W peak)
100 W (400 W peak)
600 / 1200 / 2400 W

126 dB
135 dB

Passive/Bi-Amp
15 points (M10)
783 x 422 x 504 mm
30.8 x 16.6 x 19.9 in
27.2 kg (60 lb)

AM5212/64-66-95-00-26

Medium-power 12" Two-way
37 Hz - 20 kHz (-10 dB)
43 Hz - 18 kHz (± 3 dB)
AM5212/64: 60° x 40°
AM5212/66: 60° x 60°
AM5212/95: 90° x 50°
AM5212/00: 100° x 100°
AM5212/26: 120° x 60°

400 W (1600 W peak)
300 W (1200 W peak)
40 W (160 W peak)
300 / 600 / 1200 W

122 dB
131 dB

Passive/Bi-Amp
15 points (M10)
713 x 371 x 458 mm
28.06 x 14.6 x 18.1 in
20.2 kg (45 lb)

AM5215/64-66-95-26

Medium-power 15" Two-way
35 Hz - 20 kHz (-10 dB)
41 Hz - 18 kHz (± 3 dB)
AM5215/64: 60° x 40°
AM5215/66: 60° x 60°
AM5215/95: 90° x 50°
AM5215/26: 120° x 60°

500 W (2000 W peak)
350 W (1400 W peak)
40 W (160 W peak)
350 / 700 / 1400 W

125 dB
131 dB

Passive/Bi-Amp
15 points (M10)
783 x 422 x 504 mm
30.8 x 16.6 x 19.9 in
25 kg (55 lb)



AC2215/xx



AC2212/xx

AC | Compact 2-Way

SYSTEM TYPE
FREQUENCY RANGE
FREQUENCY RESPONSE
NOMINAL COVERAGE

TRANSDUCER LF
POWER RATING(AES): HF
LONG-TERM POWER RATING (IEC)

MAXIMUM SPL¹: LF
HF
PASSIVE MODE

SELECTABLE CROSSOVER MODES

SUSPENSION

DIMENSIONS
(H x W x D)

NET WEIGHT (each)

AC2215/95, /64 & /00

Lower-power Two-way
42 Hz - 19 kHz (-10 dB)
50 Hz - 17 kHz (± 3 dB)
AC2215/95: 90° x 50°
AC2215/64: 60° x 40°
AC2215/00: 100° x 100°

275 W (1100 W peak)
30 W (120 W peak)
250 W (1000 W peak)

121 dB
127 dB
121 dB

Bi-amp, Passive
15 points
637 x 422 x 504 mm
25.1 x 16.6 x 19.9 in
23.6 kg (52 lb)

AC2212/95, /64 & /00

Lower-power Two-way
50 Hz - 19 kHz (-10 dB)
55 Hz - 17 kHz (± 3 dB)
AC2212/95: 90° x 50°
AC2212/64: 60° x 40°
AC2212/00: 100° x 100°

300 W (1100 W peak)
30 W (120 W peak)
250 W (1000 W peak)

120 dB
129 dB
120 dB

Bi-amp, Passive
15 points
548 x 355 x 352 mm
21.6 x 14.0 x 13.9 in
18.1 kg (40 lb)

AL7115



AL | Low Frequency

SYSTEM TYPE
FREQUENCY RANGE
FREQUENCY RESPONSE
TRANSDUCER
POWER RATING(AES)
LONG-TERM SYSTEM
POWER RATING
MAXIMUM SPL¹

SELECTABLE CROSSOVER MODES

ENCLOSURE
SUSPENSION
DIMENSIONS
(H x W x D)

NET WEIGHT (each)

AL7115

High-power Low Freq.
40 Hz - 4.2 kHz
47 Hz - 3.0 kHz
1000W

LF 600W (2400W peak)

LF 126/132 dB

Discrete
Trapezoidal 15° side angles
13 points
548 x 561 x 657 mm
21.6 x 22.1 x 25.9 in
25.9 kg (57 lb)

¹ Maximum long-term average SPL. Peak SPL is 6 dB higher. Figure is for highest Q version.

Harman Pro Group | 2013

Section:
07



AE SERIES



ASB | Subwoofers

	ASB6118	ASB6128	ASB4128	ASB6128V	ASH6118
SYSTEM TYPE	High-power Subwoofer	High-power Subwoofer	Medium-power Subwoofer	Extended Response Sub	Horn-loaded Subwoofer*
FREQUENCY RANGE	28 Hz - 1 kHz (-10 dB)	30 Hz - 1 kHz (-10 dB)	30 Hz - 1 kHz (-10 dB)	21 Hz - 300 Hz (-10 dB)	25 Hz - 250 Hz (-10 dB)*
FREQUENCY RESPONSE	35 Hz - 1 kHz (± 3 dB)	38 Hz - 1 kHz (± 3 dB)	40 Hz - 1 kHz (± 3 dB)	25 Hz - 300 Hz (± 3 dB)	30 Hz - 200 Hz (± 3 dB)
TRANSDUCER	1200 W (4800 W peak)	2400 W (9600 W peak)	1000 W (4000 W peak)	2400 W (9600 W peak)	1200 W (4800 W peak)
POWER RATING(AES)	(2 hrs)	(2 hrs)	(2 hrs)	(2 hrs)	(2 hrs)
LONG-TERM SYSTEM	800 W (3200 W peak)	1600 W (6400 W peak)	600 W (2400 W peak)	1600 W (6400 W peak)	800 W (3200 W peak)
POWER RATING	100 hrs	100 hrs	100 hrs	100 hrs	100 hrs
MAXIMUM SPL ¹	30 Hz - 100 Hz: 129 dB 100 Hz - 500 Hz: 129 dB	30 Hz - 100 Hz: 136 dB 100 Hz - 500 Hz: 136 dB	30 Hz - 100 Hz: 133 dB 100 Hz - 500 Hz: 133 dB	30 Hz - 100 Hz: 134 dB 100 Hz - 500 Hz: 135 dB	30 Hz - 140 Hz: 133 dB
SELECTABLE CROSSOVER MODES	Discrete	Parallel, Discrete	Parallel, Discrete	Parallel, Discrete	Discrete
ENCLOSURE	Rectangular	Rectangular	Rectangular	Rectangular	Rectangular
SUSPENSION	14 points	12 points	14 points	13 points	None
DIMENSIONS (H x W x D)	548 x 561 x 816 mm 21.6 x 22.1 x 32.2 in	1094 x 561 x 816 mm 43.1 x 22.1 x 32.2 in	1094 x 561 x 816 mm 43.1 x 22.1 x 32.2 in	967 x 561 x 1215 mm 38.1 x 22.1 x 47.85 in	564 x 1530 x 1288 mm 22.3 x 56.4 x 50.7 in
NET WEIGHT (each)	44.5 kg (98 lb)	73.0 kg (161 lb)	64.9 kg (143 lb)	89.8 kg (198 lb)	159.3 kg (351 lb)

¹ Maximum long-term average SPL. Peak SPL is 6 dB higher. Figure is for highest Q version.

* Designed to be used in multiples (2 minimum, 4 optimum) with proximity placement or with proper boundary surface loading. Specifications shown are for one cabinet.



ASB | Subwoofers

	ASB6115	ASB6125	ASB7128	ASB7118	ASB6112
SYSTEM TYPE	Single 15" Subwoofer	Double 15" Subwoofer	Double 18" High Output Subwoofer with 2269 Woofer	Single 18" High Output Subwoofer with 2269 Woofer	Single 12" Subwoofer
FREQUENCY RANGE	32 Hz - 1 kHz (-10 dB)	32 Hz - 1 kHz (-10 dB)	20 Hz - 1 kHz (-10 dB)	22 Hz - 1 kHz (-10 dB)	35 Hz - 1 kHz (-10 dB)
FREQUENCY RESPONSE	42 Hz - 1 kHz (± 3 dB)	35 Hz - 1 kHz (± 3 dB)	25 Hz - 1 kHz (± 3 dB)	34 Hz - 1 kHz (± 3 dB)	43 Hz - 1 kHz (± 3 dB)
TRANSDUCER	800 W	1600 W, 2 x 800 W	4000 W, 2 x 2000 W	2000 W	1000 W
POWER RATING(AES) ¹	(2 hrs)	(2 hrs)	(2 hrs)	(2 hrs)	(2 hrs)
LONG-TERM SYSTEM	100 hrs	100 hrs	100 hrs	100 hrs	700 W (2800 W peak), 100 hrs
POWER RATING ²					40 Hz - 300 Hz: 126 dB SPL cont average (132 dB peak)
MAXIMUM SPL ³	35 Hz - 400 Hz: 126 dB SPL (1m, calculated)	35 Hz - 400 Hz: 132 dB SPL cont average (138 dB peak)	25 Hz - 200 Hz: 135 dB SPL cont average (141 dB peak)	25 Hz - 200 Hz: 129 dB SPL cont average (135 dB peak)	
SELECTABLE CROSSOVER MODES	Discrete	Parallel, Discrete	Parallel, Discrete	Discrete	Discrete
ENCLOSURE	Rectangular	Rectangular	Rectangular	Rectangular	Rectangular
SUSPENSION	16 points (M10)	16 points (M10)	16 points (M10)	16 points (M10)	16 points (M10)
DIMENSIONS (H x W x D)	483 x 419 x 597 mm 19.0 x 16.5 x 23.5 in	965 x 419 x 597 mm 38.0 x 16.5 x 23.5 in	1092 x 560 x 815 mm 43.0 x 22.0 x 32.1 in	546 x 560 x 815 mm 21.5 x 22.0 x 32.1 in	406 x 369 x 483 mm 16.0 x 14.5 x 19.0 in
NET WEIGHT (each)	20.6 kg (45.5 lb)	36.7 kg (81.0 lb)	71.9 kg (158.5 lb)	42.9 kg (94.5 lb)	16.3 kg (36.0 lb)

¹ AES standard, one decade pink noise with 6 dB crest factor within device's operational band, free air. Standard AES 2 hr rating plus long-term 100 hr rating are specified for low-frequency transducers.

² AES standard, one decade pink noise with 6 dB crest factor, in cabinet, long-term 100 hr rating.

³ Calculated based on power rating and sensitivity, exclusive of power compression.

AE SERIES
COMPACT MODELS

AE Series Compact Models

key features

- ▶ ULTRA COMPACT ENCLOSURES
- ▶ MULTIPLE ATTACHMENT POINTS FOR ULTIMATE FLEXIBILITY
- ▶ VERTICAL OR HORIZONTAL ORIENTATION
- ▶ HIGH PERFORMANCE VS. COST

For over sixty years JBL engineers have leveraged their mastery of physics to elevate the platform which millions of creative individuals worldwide use to broadcast their personal form of audible art. The engineering team strives to achieve the highest level of sonic quality to ensure the audience will hear every nuance of tonal clarity as intended by the artist.



JBL continues to support artists worldwide with the introduction of eight new AE Series Compact Loudspeakers. An extension of the industry leading AE Series, the AE Compact family consists of high output, 2-way loudspeaker systems combining flexibility with high fidelity. Ranging from a single 5.25" point-and-shoot box to dual 8" loudspeaker system that are specifically designed for better serving the needs of both designers and artists alike.

The ultra-compact AC15 and AC25 models include a 1" dome tweeter while the AC16, AC26, AC18, and AC28 models feature 1" exit compression drivers providing sonic clarity and crisp detail. The AC18 and AC28 featuring JBL's Progressive Transition™ Rotatable Waveguides, offer the system designer a choice of coverage patterns in either 90° x 50° or 120° x 60°.

AC15

The **AC15** is an ultra compact enclosure with one 5.25" LF transducer and 90° x 90° waveguide with 25 mm (1in) dome tweeter. It is equipped with attachment points for a U-bracket and OmniMount® type bracket.

AC25

The **AC25** has the features of the AC15 with two 5.25" LF transducers.

AC16

The **AC16** is an ultra compact enclosure with one 6.5" LF transducer and a 90° x 90° Progressive Transition™ Waveguide with a 25 mm (1 in) exit compression driver. It is equipped with attachment points for a U-bracket, OmniMount® type bracket and stand mount adapter.

AC26

The **AC26** has the features of the AC16 with two 6.5" LF transducers.

AC18/95 & AC18/26

The **AC18/95 & AC18/26** are compact enclosures with one 8" LF transducer and a 90° x 50° Progressive Transition Field Rotatable Waveguide with a 1" exit compression driver (AC18/95) or 120° x 60° Progressive Transition™ Field Rotatable Waveguide with a 1" exit compression driver (AC18/26). They are equipped with attachment points for a U-bracket, OmniMount type bracket and stand mount adapter

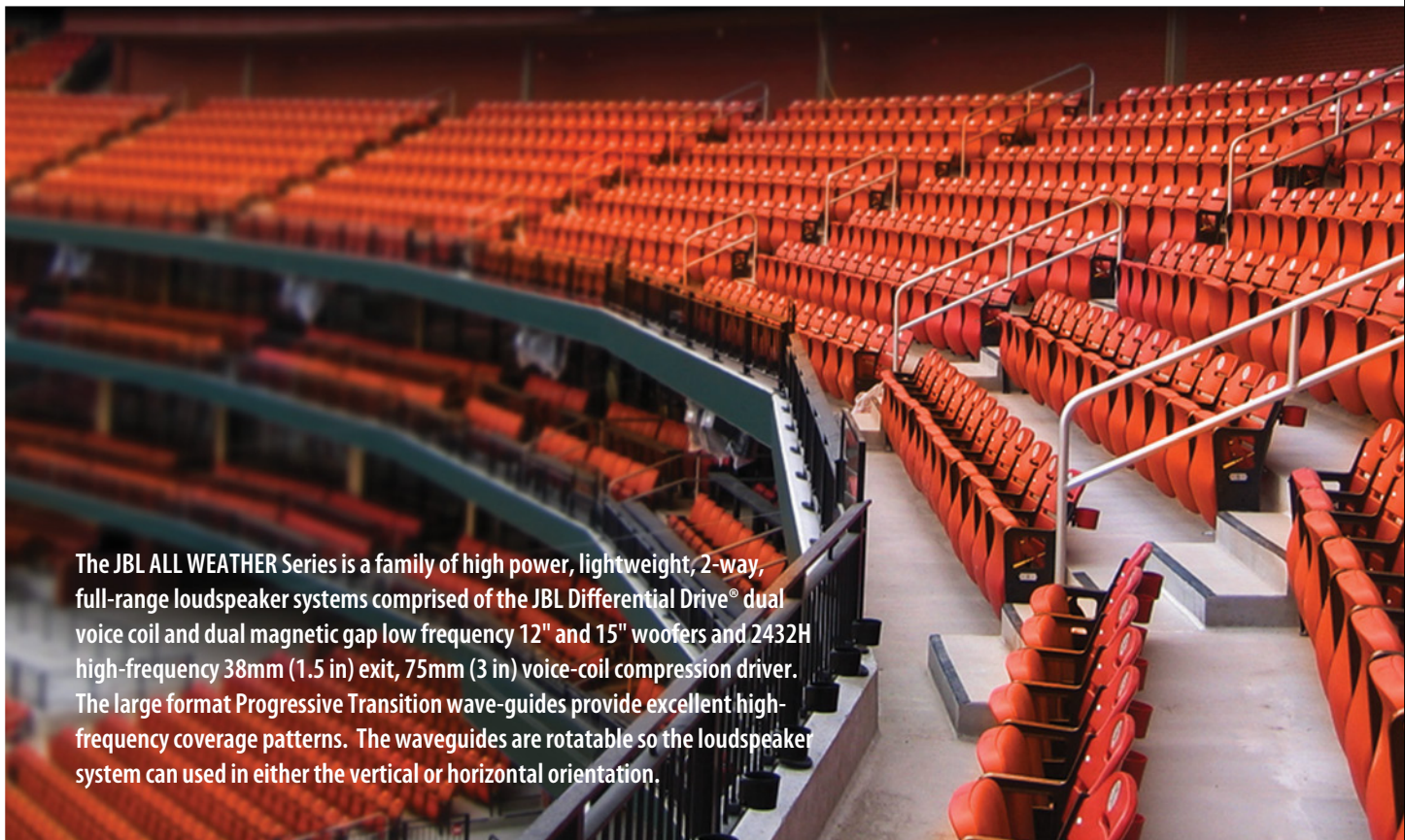
AC28/95 & AC28/26

The **AC28/95 & AC28/26** have the features of the AC18/95 & AC18/26 with two 8" LF transducers.

specifications

	AC15	AC25	AC16	AC26	AC18/95 & AC18/26	AC28/95 & AC28/26
SYSTEM TYPE	Ultra Compact 2-way Loudspeaker System with 1 - 5.25" LF	Ultra Compact 2-way Loudspeaker System with 2 - 5.25" LF	Ultra Compact 2-way Loudspeaker System with 1 - 6.5" LF	Ultra Compact 2-way Loudspeaker System with 2 - 6.5" LF	Compact 2-way Loudspeaker System with 1 - 8" LF	Compact 2-way Loudspeaker System with 2 - 8" LF
FREQUENCY RANGE (-10 dB)	80 Hz -20 kHz	80 Hz -20 kHz	55 Hz -20 kHz	55 Hz -20 kHz	47 Hz -20 kHz	47 Hz -20 kHz
FREQUENCY RESPONSE (±3 dB)	90 Hz -18 kHz	90 Hz -18 kHz	65 Hz -18 kHz	70 Hz -18 kHz	60 Hz -18 kHz	60 Hz -18 kHz
SYSTEM SENSITIVITY: 1 W, 1 m	86 dB SPL	91 dB SPL	90 dB SPL	92 dB SPL	92 dB SPL	94 dB SPL
POWER RATING	150W Continuous, 600W Peak	225W Continuous, 900W Peak	160 W Cont, 640W Peak	180W Cont, 720W Peak	250W Continuous, 1000W Peak	375W Continuous, 1500W Peak
COVERAGE PATTERN	90° x 90°	90° x 90°	90° x 90°	90° x 90°	AC18/95: 90° x 50° AC18/26: 120° x 60°	AC28/95: 90° x 50° AC28/26: 120° x 60°
DIMENSIONS (H x W x D)	241.3 x 150.3 x 177.8 mm 9.5 x 5.9 x 7.0 in	377.8 x 150.3 x 177.8 mm 14.9 x 5.9 x 7.0 in	381.0 x 199.4 x 226.1 mm 15.0 x 7.8 x 8.9 in	539.8 x 199.4 x 226.1 mm 21.3 x 7.8 x 8.9 in	469.9 x 237.5 x 254.0 mm 18.5 x 9.4 x 10.0 in	679.5 x 237.5 x 254.0 mm 26.8 x 9.4 x 10.0 in
NET WEIGHT (each)	4.7 kg (10.5 lb)	7.5 kg (16.5 lb)	7.2 kg (15.8 lb)	11.0 kg (24.3 lb)	12.8 kg (28.2 lb)	18.6 kg (40.9 lb)

AE Series



The JBL ALL WEATHER Series is a family of high power, lightweight, 2-way, full-range loudspeaker systems comprised of the JBL Differential Drive® dual voice coil and dual magnetic gap low frequency 12" and 15" woofers and 2432H high-frequency 38mm (1.5 in) exit, 75mm (3 in) voice-coil compression driver. The large format Progressive Transition wave-guides provide excellent high-frequency coverage patterns. The waveguides are rotatable so the loudspeaker system can be used in either the vertical or horizontal orientation.

The enclosures are constructed of multilayer glass composite and are heavily braced to maximize low-frequency performance. The 14-gauge stainless steel grille, backed with open cell foam and stainless steel mesh, provides excellent protection in the harshest environments. The system is equipped with a 400W 70/100V transformer. A heavy-duty stainless steel U-type mounting bracket is included and allows for easy installation on flat surfaces or in 90° corners. The ALL WEATHER Series is part of JBL's AE Series, a versatile family of loudspeakers intended for a wide variety of applications.

AW266

The **AW266** is a high power, lightweight, 2-way, full-range loudspeaker system comprised of the JBL Differential Drive dual voice coil and dual magnetic gap 2262H 300 mm (12 in) low-frequency driver and 2432H high-frequency 38 mm (1.5 in) exit, 75 mm (3 in) voice-coil compression driver. The large format Progressive Transition wave-guide provides excellent 60° x 60° coverage.

AW295

The **AW295** is a high power, lightweight, 2-way, full-range loudspeaker system comprised of the JBL Differential Drive dual voice coil and dual magnetic gap 2262H 300 mm (12 in) low-frequency driver and 2432H high-frequency 38 mm (1.5 in) exit, 75 mm (3 in) voice-coil compression driver. The large format Progressive Transition wave-guide provides excellent 90° x 50° coverage.

AW526

The **AW526** is a high power, lightweight, 2-way, full-range loudspeaker system comprised of the JBL Differential Drive dual voice coil and dual magnetic gap 2265H-1 380 mm (15 in) low-frequency driver and 2432H high-frequency 38 mm (1.5 in) exit, 75 mm (3 in) voice-coil compression driver. The large format Progressive Transition wave-guide provides excellent 120° x 60° coverage. The system is equipped with a 400 W 70/100V transformer.

AW566

The **AW566** is a high power, lightweight, 2-way, full-range loudspeaker system comprised of the JBL Differential Drive dual voice coil and dual magnetic gap 2265H-1 380 mm (15 in) low-frequency driver and 2432H high-frequency 38 mm (1.5 in) exit, 75 mm (3 in) voice-coil compression driver. The large format Progressive Transition wave-guide provides excellent 60° x 60° coverage.

AW595

The **AW595** is a high power, lightweight, 2-way, full-range loudspeaker system comprised of the JBL Differential Drive dual voice coil and dual magnetic gap 2265H-1 380 mm (15 in) low-frequency driver and 2432H high-frequency 38 mm (1.5 in) exit, 75 mm (3 in) voice-coil compression driver. The large format Progressive Transition wave-guide provides excellent 90° x 50° coverage. The system is equipped with a 400 W 70/100V transformer. A heavy-duty stainless steel U-type mounting bracket is included and allows for easy installation on flat surfaces or in 90° corners.

AE Series - All Weather

key features

- WEATHER-RESISTANT, ALL FIBERGLASS ENCLOSURE
- DIFFERENTIAL DRIVE® LOW FREQUENCY DRIVER
- U-TYPE MOUNTING BRACKET INCLUDED
- VARIETY OF COVERAGE PATTERNS FOR VERSATILE INSTALLATION USE



AW266
AW295



AW526
AW566
AW595

specifications

	AW266	AW295	AW526	AW566	AW595
SYSTEM TYPE	High Power 12" 2-way Full Range 60° x 60° All Weather Loudspeaker	High Power 12" 2-way Full Range 90° x 50° All Weather Loudspeaker	High Power 15" 2-way Full Range 120° x 60° All Weather Loudspeaker	High Power 15" 2-way Full Range 60° x 60° All Weather Loudspeaker	High Power 15" 2-way Full Range 90° x 50° All Weather Loudspeaker
DRIVER	LF: 2262H; HF: 2432H	LF 2262H; HF 2432H	LF 2265H; HF 2432H	LF 2265H; HF 2432H	LF 2265H; HF 2432H
POWER RATING (2 hrs. Continuous Pink Noise)	500W	500W	600W	600W	600W
SENSITIVITY (1w / 1m)	98dB	98dB	100dB	100dB	100dB
FREQUENCY RANGE (-10 dB)	40Hz - 20kHz	43Hz - 20kHz	35Hz - 20kHz	35Hz - 20kHz	35Hz - 20kHz
FREQUENCY RESPONSE (±3 dB)	51Hz - 18kHz	53Hz - 18kHz	55Hz - 17kHz	54Hz - 18kHz	55Hz - 19kHz
DIMENSIONS (H x W x D)	28.8 x 16.1 x 17.8 in	28.8 x 16.1 x 17.8 in	31.9 x 19.1 x 18.8 in	31.9 x 19.1 x 18.8 in	31.9 x 19.1 x 18.8 in
NET WEIGHT (each)	55.5 lb	55.5 lb	62.5 lb	62.5 lbs	62.5 lbs

AWC Series

Compact All-Weather Loudspeakers

JBL AWC82 and AWC 129: Compact, coaxial-driver, 2-way, highly weather-resistant full-range loudspeaker systems.

The AWC Series is ideal for speech and music in a wide variety of applications, including sports facilities, racetracks, stadiums, fairgrounds, rodeos, skating rinks, themed entertainment venues, cruise ships, water parks, outdoor background music/paging systems, swimming pools, and a wide variety of other outdoor or indoor venue types.

The AWC82 has a high-power coaxial 200 mm (8 in) low frequency driver and 25 mm (1 in) high frequency compression driver, while the AWC129 is comprised of a high-power co-axial 300 mm (12 in) low frequency driver and 25 mm (1 in) high frequency compression driver. Both models feature a unique tapered pole-piece design that transitions to the cone of the low frequency driver to form a large diameter pattern control waveguide for the high frequencies, both eliminating high-frequency beaming, which is common among this category of speaker, and extending pattern control to the lowest possible frequencies. The result is extremely consistent coverage – wide 120° for AWC82 and more focused 90° for AWC129 – on a broadband basis.

The Kevlar-reinforced low frequency cones are designed for reliability, featuring a well-damped surround for smooth frequency response, a high temperature voice coil and a reduced distortion design through saturated-gap magnet geometry. The high frequency compression driver features a new patented design, high temperature polymer diaphragm, and fluid-cooling for high output levels with low distortion. The enclosures are paintable to match color requirements. The corrosion-resistant zinc-rich extra-thick powder coated steel grille is backed with open cell foam and high thread-count mesh, providing protection in harsh environments. The systems are rated IP-56, per IEC529 and have passed ASTM G85 acid-air and salt-spray testing. The systems are equipped with a 200W 70V/100V multi-tap transformer. Outdoor-rated terminals in a recessed terminal cup are protected by a compartment cover and water-tight gland fitting. A heavy-duty weather-capable zinc-rich, thick powder coated U-type mounting bracket is included.



AWC Series

key features

- ▶ HIGHLY WEATHER RESISTANT IP56 RATING
- ▶ EXTRAORDINARY SPEECH CLARITY
- ▶ CONSISTENT BROADBAND PATTERN CONTROL
- ▶ COMPACT CO-AXIAL DESIGN



AWC82



AWC129

specifications

	AWC82	AWC129
SYSTEM TYPE	All-Weather Compact 2-Way Coaxial Loudspeaker with 8" LF	All-Weather Compact 2-Way Coaxial Loudspeaker with 12" LF
FREQUENCY RANGE ¹	80 Hz – 20 kHz	55 Hz – 20 kHz
FREQUENCY RESPONSE ¹	100 Hz – 20 kHz	80 Hz – 20 kHz
COVERAGE PATTERN ²	120° x 120°	90° x 90°
DIRECTIVITY FACTOR	8.1 (1 k – 16 kHz)	10.1 (1 k – 16 kHz)
DIRECTIVITY INDEX (DI)	8.4 dB (1 k – 16 kHz)	9.5 dB (1 k – 16 kHz)
LONG TERM SYSTEM POWER RATING (IEC) ³	250 W 2 hrs 200 W 100 hrs	400 W (1600 W peak), 2 hrs. 250 W (1000 W peak), 100 hrs
SENSITIVITY	94 dB (Avg 100 Hz – 20 kHz)	96 dB (Avg 80 Hz – 20 kHz)
MAXIMUM SPL	Direct 8 ohms: 118 dB (peaks of 124 dB) 200 W Tap: 117 dB	Direct 8 ohms: 122 dB (peaks of 128 dB) 200 W Tap: 119 dB
NOMINAL IMPEDANCE	8 ohms	8 ohms
COMPONENTS: LF	Kevlar-reinforced cone with weather treatment, 50 mm (2 in) voice coil	Kevlar-reinforced cone with weather treatment, 75 mm (3 in) voice coil
HF	25 mm (1 in) diaphragm and voice coil diameter, high temperature polymer diaphragm, patented design, fluid-cooling	25 mm (1 in) diaphragm and voice coil diameter, high temperature polymer diaphragm, patented design, fluid-cooling
ENCLOSURE	ABS with glass enclosure	ABS with glass enclosure
ATTACHMENT	Two M10 (fine-thread) points for included U-bracket; M6 secondary safety attachment point on back panel	Two M10 (fine-thread) points for included U-bracket; M6 secondary safety attachment point on back panel
GRILLE	Corrosion-resistant zinc-rich extra-thick powder coated steel grille, 3-layer assembly with foam and woven poly mesh backing	Corrosion-resistant zinc-rich extra-thick powder coated steel grille, 3-layer assembly with foam and woven poly mesh backing
TRANSFORMER TAPS: 100V	70V: 200W, 100W, 50W, 25W 100V: 200W, 100W, 50W	70V: 200W, 100W, 50W, 25W 100V: 200W, 100W, 50W
DIMENSIONS (H x W x D)	300 x 300 x 305 mm (11.8 x 11.8 x 12.0 in)	402 x 402 x 445 mm (15.8 x 15.8 x 17.5 in)
NET WEIGHT (each)	9.8 kg (21.5 lb) 11.6 kg (25.5 lb) with U-bracket	15.9 kg (35.0 lb) 18.9 kg (41.5 lb) with u-bracket

¹ Full-space (free-field)

³ IEC standard, full bandwidth pink noise with 6 dB crest factor.

² Average 1 kHz to 10 kHz

⁴ Calculated based on power rating and measured full-space sensitivity.

CBT Series

Line Array Column Loudspeakers



The JBL CBT Series line array columns with Constant Beamwidth Technology break new ground in performance, versatility, and affordability. Designed for venues that would typically use larger point-and-shoot speakers or powered columns, the CBT models incorporate technical advancements that allow them to vastly outperform competitive systems, with a level of user-friendliness that virtually eliminates the challenges of delivering great sound. With a slim compact design in fiberglass reinforced ABS enclosures, the CBT Series fits well into virtually any decor.

Constant Beamwidth Technology™ locks in and maintains a specific coverage pattern over a very wide bandwidth. The CBT models deliver smooth, consistent coverage that is similar to — and in some respects, better than — complex and far more expensive line arrays. The CBT Series' constant directivity coverage delivers consistent frequency response at every distance as well as off-axis. With the CBT Series, every seat in the house experiences the same quality of sound regardless of position.

CBT models are outdoor capable, with an IEC529 rating of IP55 (when used with available MTC-PC2 panel cover). CBT Series column line array loudspeakers are ideal for any application requiring a speaker with discrete appearance, excellent sound and superb pattern control.

CBT 50LA-1

The **CBT 50LA-1** is the most compact of the models. At 150 Watts, it holds its own against larger competitive columns. Response to 80 Hz works well for speech or music. Voicing can be set for music (flat) or speech via a switch.

Applications include audio for video, retail stores, and concourses, fill applications, conference rooms, and spaces wanting minimum visual impact.

CBT 100LA-1

The **CBT 100LA-1** contains sixteen 50 mm (2 in) drivers in a slim, compact cabinet, providing excellent pattern control. Vertical coverage is adjustable via a switch and voicing is switchable between music (flat) and speech voicings, making this model a great choice for wide variety of environments. 325 watts and high sensitivity provide high output capability.

Applications include lecture halls, transit centers, conference rooms, cathedrals, and difficult acoustic spaces.

CBT 70J and CBT 70J-1

The **CBT 70J-1** is a two-way speaker with high fidelity and response down to 60 Hz, 500W power handling, high sensitivity and high SPL capability. This model provides **Asymmetrical Progressive Gradient** coverage, sending more sound toward the far area of the listening space than toward the near area, resulting in more even coverage from front to back. Vertical coverage is switchable as is the voicing.

Applications include high level A/V, small to medium performance spaces, full fidelity lecture halls, large-scale surround systems, and outdoor systems such as baseball fields, racetracks and theme parks.

CBT 70JE-1

The **CBT 70JE-1** extension speaker is purpose-built for use with CBT 70J-1, lengthening the line array to extend the pattern control, extending the bass response, and increasing power handling and SPL levels in the LF range.

CBT 70J-1 + 70JE-1

The **CBT 70J-1 + 70JE-1** array system is twice the height of a CBT 70J-1, which extends the pattern control down to below 400 Hz, to include the voice range and much of the music range. This unobtrusive column array system provides 1000 Watts of continuous power handling (peaks of 4000 Watts), high sensitivity and very high maximum output capability, with a frequency response that extends down to 45 Hz.

Typical applications include: medium performance spaces that require more bass and/or more pattern control than a 70J-1 by itself, highly reflective small to medium houses of worship requiring more pattern control than a 70J-1, full-fidelity lecture halls with difficult acoustic environments or where full spectrum sound is desired, transit centers with highly reverberant acoustic environments, and multipurpose spaces that may require exceptional speech clarity and as well as full bandwidth music.



CBT 70JE-1

CBT 200LA-1

With a height of 200 cm (6.6 ft), **CBT 200LA-1** is the tallest model, providing useful pattern control down to below 200 Hz. The top and bottom speaker modules allow individual adjustment of music (flat)/speech voicing and vertical pattern settings. Setting in **Asymmetrical Progressive Gradient** coverage mode (top narrow; bottom broad) sends more sound toward the far listening area versus close for more even SPL near-to-far in the listening space.

Applications include transit centers, conference centers, cathedrals, multipurpose spaces, gymnasiums, theme parks, long-throw spaces, and highly reverberant facilities requiring narrow vertical pattern control over as wide of a bandwidth as possible.

Accessories

MTC-CBT-SMB1 – Stand Mount Bracket fits all models for portable applications. Note: For stability, CBT 70J+E array system and CBT 200LA-1 requires larger, heavier-duty stand than JBL SS2-BK.

MTC-CBT-FM1 – Low-profile, close-to-wall mounting bracket for use with CBT 50LA-1 and CBT 100LA-1

MTC-CBT-FM2 – Low-profile, close-to-wall mounting bracket for use with CBT 70J-1 and CBT 70J-1/70JE-1 array.

CBT Calculator Software – For designing CBT speakers into projects. Download from jblpro.com website.

key features

CBT Series

- ▶ CONSTANT BEAMWIDTH TECHNOLOGY™
- ▶ VERTICAL COVERAGE SWITCHABLE BETWEEN NARROW AND BROAD
- ▶ FULL FIDELITY BANDWIDTH
- ▶ SELECTABLE VOICING PROVIDES FLAT RESPONSE IN MUSIC MODE OR MID-RANGE PRESENCE PEAK IN SPEECH MODE

CBT200LA-1
(Not to scale. Please note dimensions.)

All models include grilles, which are removed in photos to illustrate driver composition.

CBT 50LA-1



CBT 100LA-1
(shown in white -wh, with and without grille)



CBT 70J-1



CBT 70J-1 + 70JE-1
Array System



specifications

	CBT 50LA-1	CBT 100LA-1	CBT 70J-1	CBT 70J-1 + 70JE-1 Array System	CBT 200LA-1
SYSTEM TYPE	Compact Full-Range Speaker System	Pattern Control Full-Range Speaker System	Full-Range J-Shaped Speaker System	LF & Pattern Extension for CBT70J-1	Full-Range Column Speaker System
FREQUENCY RANGE ¹	80 Hz – 20 kHz	80 Hz – 20 kHz	60 Hz – 20 kHz	45 Hz – 20 kHz	80 Hz – 20 kHz
COVERAGE PATTERN: VERTICAL (±10°)	20° (1.5 kHz – 16 kHz)	Narrow: 15° (2 kHz – 16 kHz) Broad: 40° (1 kHz – 16 kHz)	Narrow: 25° (2 kHz – 16 kHz) Broad: 45° (750 Hz – 16 kHz)	Narrow: 25° (2 kHz – 16 kHz) Broad: 45° (350 Hz – 16 kHz)	Narrow: 15° (500 Hz – 16 kHz) Broad: 30° (400 Hz – 12 kHz)
HORIZONTAL (±20°)	150° (ave, 1 kHz – 4 kHz)	150° (avg, 1 kHz – 4 kHz)	150° (500 Hz – 8 kHz)	150° (500 Hz – 8 kHz)	150° (avg 1 kHz – 4 kHz)
SENSITIVITY: SPEECH (2 kHz - 14 kHz)	93 dB	Narrow: 96 dB / Broad: 93 dB	Narrow: 98 dB / Broad: 96 dB ⁴	Narrow: 98 dB / Broad: 97 dB ⁴	Narrow: 95 dB / Broad: 92 dB
MUSIC MODE (300 Hz - 18 kHz)	89 dB	Narrow: 93 dB / Broad: 90 dB	Narrow: 93 dB / Broad: 92 dB	Narrow: 94 dB / Broad: 93 dB	Narrow: 93 dB / Broad: 90 dB
COMPONENTS	Eight 50 mm (2 in) Full-Range	Sixteen 50 mm (2 in) Full-Range	Four 130 mm (5 in) LF drivers Sixteen 25 mm (1 in) HF drivers	Eight 130 mm (5 in) LF drivers Sixteen 25 mm (1 in) HF drivers	Thirty-two 50 mm (2 in) Full-Range Drivers
IMPEDANCE	8 ohms	8 ohms	8 ohms	4 ohms	8 ohms per half, 4 ohms total
POWER CAPACITY: 8 OHM SETTING ²	150W (600W peak), 2 hrs 100 W (400W peak), 100 hrs	325 W (1300W peak), 2 hrs 200 W (800W peak), 100 hrs	500 W (2000W peak), 2 hrs 350 W (1400W peak), 100 hrs	1000 W (4000 W peak), 2 hrs 700 W (2800 W peak), 100 hrs	650W (2600W peak), 2 hrs 400W (1600W peak) 100 hrs
MAXIMUM SPL¹: SPEECH MODE	115 dB cont ave (121 peak)	Narrow: 121 dB cont ave (127 peak) Broad: 118 dB cont ave (124 peak)	Narrow: 125 dB cont ave (131 peak) Broad: 123 dB cont ave (129 peak)	Narrow: 125 dB cont ave (131 peak) Broad: 124 dB cont ave (130 peak)	Narrow: 123 dB cont ave (129 peak) Broad: 120 dB cont ave (126 peak)
MUSIC MODE	111 dB cont ave (117 peak)	Narrow: 118 dB cont ave (124 peak) Broad: 115 dB cont ave (121 peak)	Narrow: 120 dB cont ave (126 peak) Broad: 119 dB cont ave (125 peak)	Narrow: 121 dB cont ave (127 peak) Broad: 120 dB cont ave (126 peak)	Narrow: 121 dB cont ave (127 peak) Broad: 118 dB cont ave (124 peak)
TRANSFORMER TAPS: 100V	60 W, 30 W, 15 W	120 W, 60 W, 30 W	N/A	N/A	240 W, 120 W, 60 W ⁵
70V	60 W, 30 W, 15 W, 7.5 W	120 W, 60 W, 30 W, 15 W	N/A	N/A	240 W, 120 W, 60 W 30 W ⁵
MOUNTING	Wall bracket included	Wall bracket included	Wall bracket included	Coupler plate to join CBT 70J-1 and 70JE-1	Swivel (pan) / tilt wall bracket, Coupler plate
DIMENSIONS (H x W x D)	528 x 99 x 153 mm 20.8 x 3.9 x 6.0 in	1000 x 99 x 153 mm 39.4 in x 3.9 in x 6.0 in	694 x 170 x 237 mm 27.4 x 6.7 x 9.3 in	1388 x 170 x 237 mm 54.8 x 6.7 x 9.3 in	2000 x 98.5 x 153 mm (78.8 x 3.8 x 6.0 in)
NET WEIGHT (each)	4.1 kg (9.0 lb)	7.2 kg (15.8 lb)	9.5 kg (21 lb)	20.4 kg (45 lb)	14.6 kg (33 lb)

¹ Full space

² IEC standard, full bandwidth pink noise with 6 dB crest factor.

³ Calculated based on power rating and measured sensitivity, exclusive of power compression.

⁴ 1 kHz - 8 kHz

⁵ Both modules combined.

Control® 60 Series

Pendant Loudspeakers

key features

- ➊ DESIGNED FOR APPLICATIONS WITH OPEN ARCHITECTURE AND HIGH CEILINGS
- ➋ HANGING HARDWARE WITH GALVANIZED STEEL CABLE AND EASY TO ADJUST CLAMP
- ➌ PROPRIETARY RBI RADIATION BOUNDARY INTEGRATOR™ TECHNOLOGY FOR SEAMLESS INTEGRATION OF COAXIAL DRIVERS AND MORE CONSISTENT COVERAGE



JBL Control Contractor 60 Series Pendant loudspeakers bring renowned JBL sound and outstanding coverage to rooms and venues with open architecture or high-ceilings, while providing superior voice and musical clarity for rooms with difficult acoustics.

The diverse line-up, coupled with stylish design, is suitable for a wide variety of applications and decors—convention and exhibit spaces, atriums, restaurants, retail stores and more. Easy-to-install hanging hardware is included, featuring redundant suspension cables and UL listed adjustable-height hangers.

JBL's proprietary conical RBI Radiation Boundary Integrator is adapted from the groundbreaking VERTEC® Series of line array loudspeakers. This unique JBL patent-pending innovation combines a large diameter high-frequency waveguide with low-frequency projection apertures that work in tandem to provide a seamless integration of coverage between the two coaxially-mounted drivers. The result is extremely even pattern control and coverage, where all listeners hear a consistent flat, frequency response. This often allows the use of fewer speakers.

CONTROL 65P/T

The **Control 65P/T** incorporates JBL's exclusive RBI Radiation Boundary Integration technology to provide very consistent, wide coverage throughout the listening space.

CONTROL 67P/T

The **Control 67P/T** incorporates a large enclosure and high-power 6.5" (165 mm) transducer for extended bass and high-fidelity. The extra-large RBI Radiation Boundary Integrator™ provides outstanding pattern control, which can allow fewer speakers to cover a venue.

CONTROL 67HC/T

The **Control 67HC/T** has well-controlled narrow coverage, ideal for improved voice intelligibility and musical clarity in high-ceiling venues or in rooms with difficult acoustics—convention centers, transit centers, exhibit venues and hotel atriums.

CONTROL 62P

The **Control 62P**, with its 2.5" driver, is great for speech and mid-high music applications (external high-pass required) in visually sensitive applications. For full-range, wide bandwidth performance, up to 4 pieces can be driven from a Control 50S/T or 40CS/T subwoofer.

specifications

	CONTROL 65P/T	CONTROL 67P/T	CONTROL67HC/T	CONTROL62P
SYSTEM TYPE	Compact Full-Range Pendant Loudspeaker with RBI	Full-Range Pendant Loudspeaker with RBI	Narrow-Coverage, High Ceiling Pendant Loudspeaker with RBI	Ultra-Compact, Mid-High Satellite Pendant Speaker
FREQUENCY RESPONSE (-10 dB) ¹	55 Hz – 20 kHz	58 Hz – 18 kHz	75 Hz – 17 kHz	150 Hz – 20 kHz
FREQUENCY RANGE (±3 dB)	78 Hz – 18 kHz	78 Hz – 16 kHz	110 Hz – 16 kHz	200 Hz – 17 kHz
POWER CAPACITY ² : PROGRAM PINK	150 W 75 W	150 W 75 W	150 W 75 W	50 W 15 W
NOMINAL SENSITIVITY ³	86 dB	90 dB	93 dB	87 dB (4.0 V, 1 W); 84 dB (2.83 V)
NOMINAL COVERAGE ANGLE ³	120°	120°	75°	140°
RATED IMPEDANCE	8 ohms	8 ohms	8 ohms	16 ohms
TRANSFORMER TAPS	70V: 60 W, 30 W, 15 W & 7.5 W 100V: 60 W, 30 W, 15 W	70V: 60 W, 30 W, 15 W & 7.5 W 100V: 60 W, 30 W, 15 W	70V: 60 W, 30 W, 15 W & 7.5 W 100V: 60 W, 30 W, 15 W	(no transformer taps)
TRANSDUCERS	LF: 130 mm (5 1/4 in) polypropylene-coated paper with pure butyl rubber surround HF: 20 mm (3/4 in) textile soft-dome with neodymium magnet assembly	LF: 165 mm (6 1/2 in) polypropylene-coated paper with pure butyl rubber surround HF: 25 mm (1.0 in) textile soft-dome, neodymium magnet assembly	LF: 165 mm (6 1/2 in) polypropylene-coated paper with pure butyl rubber surround HF: 25 mm (1 in) textile soft-dome, neodymium magnet assembly	60 mm (2 1/2 in), polypropylene-coated paper with pure butyl rubber surround
ENCLOSURE	High impact polystyrene	High impact polystyrene	High impact polystyrene	High impact polystyrene
DIMENSIONS (DIAMETER x DEPTH)	234 x 259 mm 9.3 x 10.2 in	312 x 330 mm 12.3 x 13 in	333 x 344 mm 13.1 x 13.6 in	128 x 121 mm 5.1 x 4.8 in
NET WEIGHT (each)	3.7 kg (8 lb)	5.2 kg (11.5 lb)	5.9 kg (13 lb)	.7 kg (1.5 lb)

¹ Full-space (suspended)

² Continuous Pink Noise rating is IEC-shaped pink noise with a 6 dB peak-to-average crest factor for 100 hours continuously. Continuous Program power is a conservative expression

of the system's ability to handle normal speech and music program material and is defined as 3 dB above the Continuous Pink Noise rating.

³ Full-space (suspend in free air), average 1.5 kHz to 10 kHz.

Control® 50 Series

Surface-Mount Subwoofer-Satellite System

key features

- SELECTABLE 70V/100V OR LOW IMPEDANCE
- WALL-MOUNT BRACKETS INCLUDED
- MIX AND MATCH WITH CONTROL CONTRACTOR 40 SERIES
- USE EITHER TWO OR FOUR SATELLITE SPEAKERS PER SYSTEM

The C50PACK includes 4) Control 52 satellite speakers and 1) Control 50 subwoofer as shown. The Control 50 Series is also available individually.

The Control 50 Series subwoofer-satellite loudspeaker system provides high fidelity sound in any location where full-range high fidelity foreground/background music is required from a surface-mount system.

The Control 50S/T subwoofer can be utilized with either two of four Control 52 satellite speakers. The Control 50 system is mono. Both the Control 50S/T and Control 52 can be intermixed in systems along with the Control 40 Series in-ceiling models – Control 40CS/T subwoofer and Control 42 satellite speaker – to match the form factor requirements of a wide variety of applications.



CONTROL 52 SATELLITE SPEAKER

The Control 52 satellite loudspeaker produces superb high fidelity sound via a low distortion 60 mm (2½ in) driver. The included wall bracket allows each speaker to be angled up to 45° off-axis.

CONTROL 50S/T SUBWOOFER

The Control 50S/T subwoofer contains a high-power, long-excursion, 200 mm (8 inch) driver which provides extended low frequency response. The Control 50S/T installs quickly with its included two-piece easy-mount wall-bracket.

The built-in crossover network provides proper signal routing and output connectors for four Control 52 satellite loudspeakers. A Loop Out connector provides a full-range input signal to other loudspeakers or to other subwoofer/satellite systems.

specifications

	Control 52	Control 50S/T	Control 50PACK	
SYSTEM TYPE	Wall-Mountable Satellite Speaker	150 W Subwoofer	Control 50S/T and 4 pcs Control 52	
FREQUENCY RANGE (-10 dB) ¹	140 Hz – 20 kHz	32 Hz – 200 Hz	32 Hz – 20 kHz	¹ Half-space (mounted on wall).
POWER CAPACITY: PROGRAM ²	30 W (100 hours)	200 W (100 hours)	200 W (100 hours)	² Continuous Pink noise rating is IEC-shaped pink noise with a 6 dB crest factor for 100 hours continuously. Continuous Program Power is a conservative expression of the system's ability to handle normal speech and music program material, and is defined as 3 dB above the Continuous Pink Noise rating.
PINK	15 W (100 hours)	100 W (100 hours)	100 W (100 hours)	³ Half-space, average 1 kHz – 4 kHz
NOMINAL COVERAGE ³	150° x 150° omnidirectional	95 dB (near corner), 89dB (center of wall)	87 dB	
SENSITIVITY: 1W, 1m	85 dB	8 ohms	4 ohms	
NOMINAL IMPEDANCE	16 ohms	80 W, 40 W, 20 W, 80 W, 40 W, 20 W, 10 W 8 ohm bypass/thru	80 W, 40 W, 20 W, 80 W, 40 W, 20 W, 10 W 8 ohm bypass/thru	
TRANSFORMER TAPS: 100V 70V		200 mm (8 in) with polypropylene cone, butyl rubber surround, 38 mm (1.5 in) 4-layer copper-clad coil, vented aluminum former		
COMPONENTS:	60 mm (2.5 in) with polypropylene cone, butyl rubber surround, 19 mm (0.75 in) copper-clad coil, copper sleeved magnet	6 Screw-down removable locking connectors	6 Screw-down removable locking connectors	
TERMINATION	Screw-down removable locking connector	356 x 391 x 203 mm		
DIMENSIONS (H x W x D)	115 x 84 x 96 mm 4.5 x 3.3 x 3.75 in	14.0 x 15.4 x 8.0 in		
NET WEIGHT (each)	.7 kg (1.5 lb)	9.0 kg (20 lb)	11.8 k (26 lb)	

Control® Contractor

Surface-Mount Speakers



The Control Contractor Surface speakers are compact systems with rugged, molded high impact polystyrene shells. Designed for wide-ranging indoor and outdoor (except SB-2) applications, the Control Contractor Series offers versatility, ease-of-installation and paintability. JBL's Invisiball® mounting technology revolutionizes ease-of-installation with built-in hardware easily secured with a standard hex wrench from a front channel (except Control CRV). Mounting bracket is included.

CONTROL 23/CONTROL 23T

The most compact of the JBL Control Contractor Series speakers, the **Control 23**, has a 3½" woofer and horn-loaded titanium-coated tweeter ideal for mid/high operation in limited space environments. The optional Control 23T has a pre-installed transformer for line distribution systems. Augmenting the bass with a JBL subwoofer results in an extremely full-fidelity subwoofer-satellite system.

CONTROL 25/CONTROL 25T

The **Control 25** incorporates a 5¼" low frequency loudspeaker with a horn-loaded 1" titanium-coated tweeter. Its full-range frequency response makes it an excellent choice for moderately large venues, providing superior dynamic performance. The optional Control 25T includes a multitap transformer for line distribution systems.

CONTROL 25AV

The **Control 25AV** is an especially wide bandwidth, smooth response speaker. It features a top-quality 60 W multitap transformer for 70V/100V line distribution systems. The transformer may be bypassed allowing the Control 25AV to be used as an 8 ohm impedance speaker. Stainless steel grille and MTC-PC2 panel cover included for additional weather resistance.

CONTROL 25AV-LS

The **Control 25AV-LS** is UL1480 UUMW listed for use in fire alarm and/or emergency communication systems. It is also EN54-24 certified.



CONTROL 25AV-LS

CONTROL 28/CONTROL 28T-60

The **Control 28** offers high power, performance, bandwidth and sensitivity in a compact, full-range speaker. Incorporating an 8" low-frequency woofer and 1" titanium-coated tweeter, the Control 28 provides vivid sound reproduction for large-space applications. The optional Control 28T-60 contains a multitap transformer for 70V/100V line distribution systems.

CONTROL 29AV-1

The **Control 29AV-1** utilizes high power components and a complex network to achieve smooth high fidelity performance, extended bandwidth and well-controlled defined coverage from a compact loudspeaker. A rotatable 110° x 85° high-frequency horn allows use of the speaker in either vertical or horizontal orientation. Smooth frequency response and even coverage ensures excellent sound character throughout the listening area. Contains 10 inserts for suspending. Optional MTC-29UB U-bracket available.

CONTROL 30

The **Control 30** is a three-way high output speaker designed for multiple uses. Weather resistance has been maximized, making the Control 30 suitable for outdoor applications. It features a top-quality 150 W multitap transformer for 70V/100V line distribution systems with a bypass for use as an 8 ohm speaker. Contains 10 inserts for suspending. Optional MTC-30UB U-bracket available.

key features

- ◆ INVISIBALL® MOUNTING TECHNOLOGY
- ◆ WEATHEREDGE™ FOR MOISTURE PROTECTION
- ◆ PAINTABLE TEXTURED ENCLOSURES
- ◆ SELECTION OF VERSATILE MOUNTING HARDWARE



The unique curved shape of the CRV provides innovative installation solutions. When placed at the junction of the ceiling and wall or two walls, the speaker couples well with both boundary surfaces, forming a dual ground plane configuration.



JBL's exclusive, patented InvisiBall Mounting System (most models) allows for quick, easy, theft-resistant installation with the built-in mount secured by a few turns of a standard hex wrench.



JBL's Control Contractor systems provide incredible design flexibility. All speakers are constructed with a similar sonic signature allowing mixing and matching of any of the various models. For décor considerations, all models (except SB-2) are available in black or white and are paintable.

CONTROL CRV

The Control CRV brings high design and versatility to both indoor and outdoor commercial applications. The Control CRV incorporates dual 4" woofers with Polyplas™ cones for durability and a ¾" titanium-laminate tweeter.

CONTROL SB-2

The SB-2 functions as the subwoofer section of left/right music systems, preserving the stereo separation. The dual voice coil 10" bass transducer has been optimized to complement four Control 23 as satellite speakers. (Not outdoor capable.)

CONTROL SB210

The Control SB210 subwoofer contains two high power 10" woofers suitable for a variety of applications both indoors and out. Its compact size, durable enclosure, insert points, and stacking options make it one of the most versatile subwoofers in the installation market. Optional input modules are available to provide passive subwoofer/satellite crossover (MTC-210-SAT), 70 V/100V subwoofer-band transformer (MTC-210T) or both (MTC-210T-SAT for use with low impedance satellite speakers.)

ACCESSORIES

MTC-PC2: The MTC-PC2 Panel Cover provides sealed entrance protection for input terminals and strain relief for incoming speaker wire.

MTC-xxSSG and MTC-xxWMG: SSG stainless steel retrofit grilles for Control 23, 25, and 28. WMG WeatherMax™ grilles add a foam and tight-weave backing to break up driving rain.

MOUNTING BRACKETS



MTC-xxUB* U-BRACKET

MTC-xxUB*: U-brackets for installing Control 29AV, 30 and SB210. Available in black or white.



MTC-xxH* HORIZONTAL ARRAY BRACKETS

MTC-xxH* Horizontal Array Brackets: Allows horizontal arraying of two Control 23, 25 or 28 speakers. MTC-H brackets can be interconnected to form a suspended ring for mounting 6 or 3 speakers in a 360° cluster module.



3) MTC-xxH* AS CLUSTER MODULE BRACKET (SHOWN PARTIAL)



MTC-xxV* VERTICAL ARRAY BRACKETS

MTC-xxV* Vertical Array Brackets:

Allows vertical end-to-end mounting of up to three Control 23, 25, or 28 speakers.



MTC-xxCM* CEILING BRACKETS

MTC-xxCM* Ceiling Brackets:

The curved arm allows installation of Control 23, 25, 28, 29AV or 30 speakers down from a ceiling.



SB-2 BRACKETS

MTC-30MK-WH: Marine grille kit for Control 30 (white only).

SB-2 Installation Brackets:

The MTC-SB2W wall/corner bracket allows mounting of the subwoofer onto a wall surface or into a corner. The MTC-SB2C ceiling bracket enables suspension of the SB-2 from above, projecting downward into the listening area.

PMB-BK and PMB-WH: Control CRV pole-mount bracket for 4-speaker 360° hanging pendant cluster.

Various adaptors for installing via threaded pipe or rod available from third party. Contact JBL for information.

*These models are available in different sizes. Specify speaker model when ordering.



CONTROL SB-2



CONTROL SB210



specifications

	CONTROL 23/23T	CONTROL 25/25T	CONTROL 25AV	CONTROL 25AV-LS	CONTROL 28/28T-60	CONTROL CRV
FREQUENCY RANGE (-10 dB) ¹	85 Hz - 22 kHz (23) 100 Hz - 21 kHz (23T)	80 Hz - 16 kHz (25) 80 Hz - 15 kHz (25T)	70 Hz - 23 kHz	90 Hz - 23 kHz	60 Hz - 16 kHz (28) 55 Hz - 15 kHz (28T-60)	80 Hz - 20 kHz
POWER CAPACITY: PROGRAM ² PINK ³	50 W (23) 25 W (23)	150 W (25) 75 W (25)	200 W 100 W	200 W 100 W	175 W (28) 87 W (28)	150 W 60 W
NOMINAL COVERAGE	90° x 90°	90° x 90°	100° x 100°	110° x 85°	90° x 90°	105° x 80°
SENSITIVITY: 1 W, 1 m	86 dB SPL (23)	88 dB SPL (25)	87 dB SPL	87 dB SPL	92 dB SPL (28)	89 dB SPL
NOMINAL IMPEDANCE	8 ohms (23)	8 ohms (25)	8 ohms	8 ohms	8 ohms (28)	4 ohms
COMPONENTS: LOW FREQ. HIGH FREQ.	3 1/2 in (88 mm) 1/2 in (13 mm)	5 1/4 in (135 mm) 3/4 in (19 mm)	5 1/4 in (130 mm) 3/4 in (20 mm)	5 1/4 in (130 mm) 3/4 in (20 mm)	8 in (200 mm) 1 in (25 mm)	2 x 4 in (100 mm) 3/4 in (19 mm)
TRANSFORMER TAPS: 100V 70.7V	10 W (23T) 5 W (23T)	30, 15, 7.5 W (25T) 30, 15, 7.5, 3.7 W (25T)	60, 30, 15 W 60, 30, 15, 7.5 W	60, 30, 15 W 60, 30, 15, 7.5 W	60, 30, 15 W (28T-60) 60, 30, 15, 7.5 W (28T-60)	30 W, 15 W, 7.5 W 30 W, 15 W, 7.5 W, 3.8 W
ENCLOSURE	HIPS (High Impact Polystyrene)	HIPS (High Impact Polystyrene)	HIPS (High Impact Polystyrene)	HIPS (High Impact Polystyrene)	HIPS (High Impact Polystyrene)	ABS
FINISH	Black or white (-WH)	Black or white (-WH)	Black or white (-WH)	Black or white (-WH)	Black or white (-WH)	Black or white (-WH)
DIMENSIONS (H x W x D)	193 x 140 x 111 mm 7.6 x 5.5 x 4.4 in	236 x 188 x 149 mm 9.3 x 7.4 x 5.8 in	236 x 186 x 159 mm 9.3 x 7.4 x 6.3 in	236 x 186 x 159 mm 9.3 x 7.4 x 6.3 in	380 x 280 x 220 mm 15.0 x 11.0 x 8.6 in	127 x 364 x 262 mm 5 x 14.4 x 10.3 in
NET WEIGHT (each)	1.8 kg (4 lb) (23) 2.2 kg (5 lb) (23T)	2.3 kg (5 lb) (25) 3.6 kg (8 lb) (25T)	4.0 kg (9 lb)	3.8 kg (9 lb)	5.5 kg (12 lb) (28) 6.3 kg (14 lb) (28T-60)	3.2 kg (7 lb)

¹ Half-space (on wall).

² Continuous Program Power, which is a conservative expression of the system's ability to handle normal speech and music program material and is defined as 3 dB above the Continuous Pink Noise rating (IEC-shaped pink noise with a 6 dB crest factor, for 100 hours continuously).

³ Continuous Pink Noise for 100 hours.



	CONTROL 29AV-1	CONTROL 30	CONTROL SB-2	CONTROL SB210
FREQUENCY RANGE (-10 dB) ¹	37 Hz - 18 kHz	38 Hz - 17 kHz	38 Hz - 160 Hz	42 Hz - 200 Hz
POWER CAPACITY: PROGRAM ² PINK ³	300 W 150 W	500 W 250 W	340 W (both inputs) 170 W (both inputs)	800 W 400 W
NOMINAL COVERAGE	110° x 85° (rotatable)	120° x 110°	N/A	N/A
SENSITIVITY: 1 W, 1 m	90 dB SPL	93 dB SPL	94 dB SPL (on wall) 100 dB SPL (near corner)	96 dB SPL (on wall) 102 dB SPL (near corner)
NOMINAL IMPEDANCE	8 ohms	4 ohms	8 ohms per input	8 ohms
COMPONENTS: LOW FREQ. MID FREQ. HIGH FREQ.	8 in (200 mm) 1 in (25 mm) comp. driver	10 in (250 mm) 5 in (125 mm) 1 in (25 mm) comp. driver	10 in (250 mm) long-throw with dual voice coils	2 x 10 in (250 mm)
TRANSFORMER TAPS: 100V 70.7V	110, 55, 28 W 110, 55, 28, 14 W	150, 75, 38 W 150, 75, 38, 19 W		
ENCLOSURE	HIPS (High Impact Polystyrene)	HIPS (High Impact Polystyrene)	Particle Board	HIPS (High Impact Polystyrene)
FINISH	Black or white (-WH)	Black or white (-WH)	Black	Black or white (-WH)
DIMENSIONS (H x W x D)	520 x 306 x 277 mm 20.5 x 12.0 x 10.9 in	593 x 372 x 345 mm 23.3 x 14.6 x 13.5 in	394 x 585 x 343 mm 15.5 x 23.0 x 13.5 in	335 x 590 x 570 mm 14 x 23.3 x 22.5 in
NET WEIGHT (each)	12.2 kg (27 lb)	18.9 kg (42 lb)	19.1 kg (42 lb)	17.1 kg (38 lb)



Control® Contractor

In-Wall Speakers

key features

- ▶ MINIMAL VISUAL IMPACT
- ▶ HIGH POWER HANDLING CAPABILITY
- ▶ EASY TO INSTALL IN STANDARD STUD-WALL CONSTRUCTION
- ▶ 70V/100V VERSIONS AVAILABLE



126W/WT

128W/WT



JBL Control 126W/WT and 128W/WT are premium in-wall speakers designed for applications where top performance from a loudspeaker with minimal visual impact is required. The Control 100 Series speakers are voiced similarly to other JBL Control Contractor models, allowing mixing with surface-mount and in-ceiling speakers within a single listening space. The premium sound quality makes these loudspeakers ideal for critical listening environments, yet they are high power and rugged enough to handle venues requiring high-SPL, heavy duty-cycle music.

CONTROL 126 W/WT and CONTROL 128W/WT

The **Control 126 W** and **Control 128 W** feature high performance woofers with a polymer coated aluminum cone, pure butyl rubber surround for long life and high reliability, and extended polepiece magnet design for long excursion and high reliability. The pure titanium dome high frequency driver is loaded with a built-in EOS™ (Elliptical Oblate Spheroidal) waveguide for low distortion and a smooth frequency response. A low-diffraction swivel mounting system enables the user to direct high frequencies where required without the diffraction distortion inherent in other aimable tweeter designs. A high-slope crossover network maintains natural midrange sound and produces more even coverage throughout the listening area.

The speakers fit into the wall space of ordinary stud-wall construction. An optional rough-in frame is available for installing the speakers into standard stud walls in new construction projects. As is the case with all Control Contractor speakers, the baffles and grilles are paintable to match any décor.

The optional Control 126WT and Control 128WT include 70V/100V transformers for use on distributed loudspeaker lines.

specifications

	CONTROL 126W/WT	CONTROL 128W/WT
FREQUENCY RANGE (-10 dB) ¹	38 Hz - 20 kHz	30 Hz - 20 kHz
POWER CAPACITY: PROGRAM ²	100 W	120 W
PINK ²	50 W	60 W
SENSITIVITY: 1 W, 1 m	88 dB SPL	90 dB SPL
NOMINAL IMPEDANCE	8 ohms	8 ohms
TRANSFORMER TAPS: 100V	30, 15, 7.5 W (126WT)	50, 25, 12 W (128WT)
70.7 V	30, 15, 7.5, 3.7 W (126WT)	50, 25, 12, 6 W (128WT)
COMPONENTS: LOW FREQ.	6 1/2 in (165 mm)	8 in (200 mm)
HIGH FREQ.	1 in (25 mm)	1 (25 mm)
TERMINATION	Screw-down Euroblock type	Screw-down Euroblock type
OPTIMUM AIR CAVITY BEHIND SPEAKER	20 - 40 liters (0.7 to 1.4 cu. ft.)	40 - 80 liters (1.4 to 2.8 cu. ft.)
ROUGH-IN FRAME	MTC-126RIF	MTC-128RIF
DIMENSIONS (H x W x D)	280 x 215 x 105 mm 11 x 8.5 x 4.1 in	334 x 257 x 110 mm 13.1 x 10.1 x 4.3 in
NET WEIGHT (each)	126W: 2.1 kg (4.5 lb) 126WT: 2.7 kg (5.9 lb)	128W: 2.6 kg (5.5 lb) 128WT: 3.3 kg (7.2 lb)

¹ Half-space (mounted in-wall or in ceiling)

² Continuous Program Power, which is a conservative expression of the system's ability to handle normal speech and music program material and is defined as 3 dB above the Continuous Pink Noise rating (IEC-shaped pink noise with a 6 dB crest factor, for 100 hours continuously).

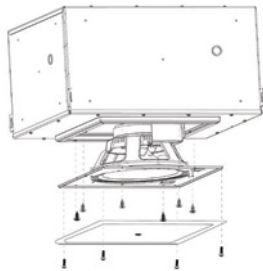
³ Rated in Continuous Pink Noise for 100 hours.

Control® 300 Series

Large Format Ceiling Speakers

key features

- VERY HIGH OUTPUT LEVELS WITH HIGH FIDELITY PERFORMANCE
- EASY TO DESIGN AND INSTALL
- PRECISION COVERAGE
- PREMIUM ACCESSORIES



Control 300 Series represents the state of the art in large-format ceiling loudspeaker systems. True point-source coax designs, multiple power levels and transformer choices, plus an in-ceiling subwoofer, make it easy to fulfill any system performance requirements. Premium components include Kevlar-reinforced cones, low-saturation transformers and legendary JBL compression drivers. Advanced high-slope crossover networks, combined with low system distortion and smooth frequency response provides full, natural music along with exceptional speech intelligibility.

In these Control 300 coax models, the throat and cone combine to form a Constant Coverage waveguide which provides extraordinary broadband control, ensuring even coverage and consistent sound throughout the listening space. And Control 328 goes a step further with a 12" diameter waveguide, providing the pattern control of a 12" horn from an 8" driver.

The EZ-Rail™ feature (on 12" models) provides a "helping hand" to hold one side of the loudspeaker in place while fastening it to a pre-installed back box. A multi-pin locking connector allows for easy pre-wiring and quick clip-in during installation.

ACCESSORIES: Premium accessories include best-in-class back boxes made of heavy 16 gauge metal and lined with 1/2" MDF, as well as contemporary grilles and an optional higher power transformer. Accessories include:

	MTC-300BB8	MTC-300BB12	MTC-RG6/8	MTC-SG6/8	MTC-300SG12	MTC-TB6/8	MTC-300T150
DESCRIPTION	Premium 1 cu ft (28 cu l) Cylindrical Backbox	Premium 3 cu ft (84 cu l) Rectangular Backbox	Round Grille for 6 in (152mm) and 8 in (200 mm) systems	Sq. Grille for 6 in (152mm) and 8 in (200 mm) systems	Square Grille for 12 in (300 mm) systems	Tile bridge for 6 in (152 mm) and 8 in (200 mm) systems	150 W Accessory Transformer
FITS:	Control 328C/CT and 227C/CT	Control 321C/CT, 322C/CT and 312CS	Control 227C/CT and 328C/CT	Control 227C/CT and 328C/CT	Control 321C/CT, 322C/CT and 312CS	Control 227C/CT and 328C/CT	Mounting studs included on MTC-300BB12
DIMENSIONS:	15 dia x 10.6 in deep (380 x 270 mm)	23.1 x 18.2 x 12.6 in (587 x 461 x 324 mm)	13.6 in dia x 0.64 in deep (345 x 16.3 mm)	13.4 x 13.4 x 0.4 in deep (340 x 340 x 10 mm)	16.3 x 16.3 x 0.4 in deep (415 x 415 x 10 mm)	25.4 x 16.25 in (646 x 413 mm)	3.4 x 3.4 x 3.1 in (86 x 86 x 78 mm)

specifications

	Control 328C/CT	Control 321C/CT	Control 322 C/CT	Control 312CS
SYSTEM TYPE	8" Coaxial Ceiling Loudspeaker with HF Compression Driver	12" Coaxial Ceiling Loudspeaker with HF Compression Driver	High-output 12" Coaxial Ceiling Loudspeaker	12" In-Ceiling Subwoofer Loudspeaker
FREQUENCY RANGE (-10 dB)¹	45 Hz – 18 kHz	34 Hz – 18 kHz	32 Hz – 20 kHz	30 Hz – 4.5 kHz
POWER CAPACITY: PROGRAM²	500 W	500 W	800 W	800 W
PINK³	250 W	250 W	400 W	400 W
NOMINAL COVERAGE	120° conical	90° conical	90° conical	
SENSITIVITY: 1W, 1m	93 dB	94 dB	95 dB	93 dB
NOMINAL IMPEDANCE	8 ohms	8 ohms	8 ohms	8 ohms
TRANSFORMER TAPS: 100V	60, 30 15 W	60, 30, 15, 7.5 W	100, 50, 25 W	n/a
70V	60, 30, 15, 7.5 W	Optional 150W with MTC-300T150	100, 50, 25, 12.5 W	n/a
COMPONENTS: LF	8 in (200 mm)	12 in (300 mm)	12 in (300 mm)	12 in (300 mm)
HF	1" diaphragm compression driver	1" diaphragm compression driver	1.5" diaphragm compression driver	
TERMINATION	Screw-down removable locking connector	Screw-down removable locking connector	Screw-down removable locking connector	Screw-down removable locking connector
DIMENSIONS (W)	12 in (305 mm) diameter round baffle	14.4 x 14.4 in (366 x 366 mm) square baffle	14.4 x 14.4 in (366 x 366) square baffle	14.4 x 14.4 in (366 x 366 mm) square baffle
(D)	6.3 in (160 mm) for C328C	8.8 in (223 mm) for C321C	8.8 in (223 mm) for C322C	6.3 in (160 mm)
	8.6 in (218 mm) for C328CT	9.5 in (240 mm) for C321CT	9.5 in (240 mm) for C322CT	
NET WEIGHT (each)	4.5 kg (10 lb) for C328C	7.3 kg (16 lb) for C321C	9.1 kg (20 lb) for C322C	
	5.4 kg (12 lb) for C328CT	8.2 kg (18 lb) for C321CT	10.0 kg (22 lb) for C322CT	

¹ IEC filtered random noise (50 Hz - 5 kHz) with a crest factor (peak to average ratio) of 6 dB

² Continuous Program Power, which is a conservative expression of the system's ability to handle normal speech and music program material and is defined as 3 dB above the Continuous Pink Noise rating (IEC-shaped pink noise with a 6 dB crest factor).

³ Continuous Pink Noise for 2 hours.



Control® 200 Series

Medium Format Ceiling Speakers

key features

- ▶ 6.5" KEVLAR-REINFORCED LF
- ▶ 1" EXIT COMPRESSION DRIVER HF
- ▶ INTEGRATED & INDEPENDENT BACKCAN VERSIONS
- ▶ HIGH OUTPUT, PREMIUM SOUND QUALITY



CONTROL 227C & 227CT Assembly with Backcan and Grille.



Control 226C/T, 227C and 227CT are premium in-ceiling speakers designed to meet the increasing market demand for premium quality sound in ceiling-mount applications. The Control 200 Series loudspeakers incorporate breakthrough performance features such as best-in-class pattern control to provides a consistent sound throughout the listening area. Especially wide coverage allows fewer speakers to cover the space, reducing both the material and labor cost for the installation.

The high-power kevlar-reinforced 6.5 in (165 mm) low-frequency driver along with the titanium-diaphragm compression driver and the advanced-technology steep-slope crossover network provide superb, wide-bandwidth sound quality.

CONTROL 226C/T

Control 226C/T is a compact, easy-to-install speaker with integrated backcan for blind-mounting into ceilings. It features a top-quality 60 W multi-tap transformer for 70V/100V line distribution systems. The transformer may be bypassed, allowing the Control 226C/T to be used as a low-impedance 8 ohm speaker.

C-ring, tile rails and grille are included. This model is designed to be able to utilize the optional MTC-19NC new construction ring and MTC-19MR plaster-ring for new construction projects requiring pre-installation rings.

CONTROL 227C

Control 227C is a high-output, low-impedance 8 ohm speaker assembly for installation with the separate MTC-200BB8 backcan and MTC-RG6/8 grille (both sold separately). Optional accessories include MTC-19NC new construction ring, MTC-19MR plaster-ring, and MTC-TB6/8 tile bridge.

CONTROL 227CT

Control 227CT is a 70V/100V version of Control 227C, featuring a top-quality 60 W multi-tap transformer for 70V/100V line distribution systems.

PREMIUM ACCESSORIES

MTC-200BB6: Backcan for Control 227C and 227CT. 13.3 inches (337 mm) max diameter x 8.1 inches (206 mm) deep.

MTC-RG6/8: Round grille for Control 227C and 227CT. Also fits Control 328C & 328CT. 13.6 inches (345 mm) in diameter

MTC-SG6/8: Square grille for Control 227C and 227CT. Also fits Control 328C & 328CT. 13.4 inches (340 mm) x 13.4 inches (340 mm).

MTC-TB6/8: Tile bridge for Control 227C and 227CT. Also fits Control 328C & 328CT.

MTC-19NC & MTC-19MR: New-construction and mud rings fit Control 226 for new construction applications requiring pre-installation rings.

specifications

	CONTROL 226C/T	CONTROL 227C & 227CT
FREQUENCY RANGE (-10 dB) ¹	47 Hz – 19 kHz	43 Hz – 19 kHz
POWER CAPACITY: PROGRAM	300 W	300 W
PINK (2 hr) ²	150 W	150 W
(100 hr) ²	100 W	100 W
SENSITIVITY: 1 W, 1 m	90 dB	90 dB
NOMINAL IMPEDANCE	8 ohms	8 ohms (227C)
NOMINAL COVERAGE ³	120°	120°
COMPONENTS: LOW FREQ.	6.5 in (165 mm)	6.5 in (165 mm)
HIGH FREQ.	1 in (25 mm) diaphragm compression driver	1 in (25 mm) diaphragm compression driver
TRANSFORMER TAPS: 100V	60W, 30W, 15W	60W, 30W, 15W (227CT)
70.7V	60W, 30W, 15W, 7.5W	60W, 30W, 15W, 7.5W (227CT)
DIMENSIONS (DIA. X DEPTH)	13 x 9.7 in (330 x 246 mm)	12.0 x 5.8 in (305 x 147 mm)
NET WEIGHT (each)	9.1 kg (20 lb)	4.1 kg (9 lb) 227C 5.2 kg (11.5 lb) 227CT



CONTROL 226C/T

Control 200 models are available both in an independent backcan design (Control 227C & 227CT) and in an integrated backcan version (Control 226C/T).

¹ Half-space (in ceiling)

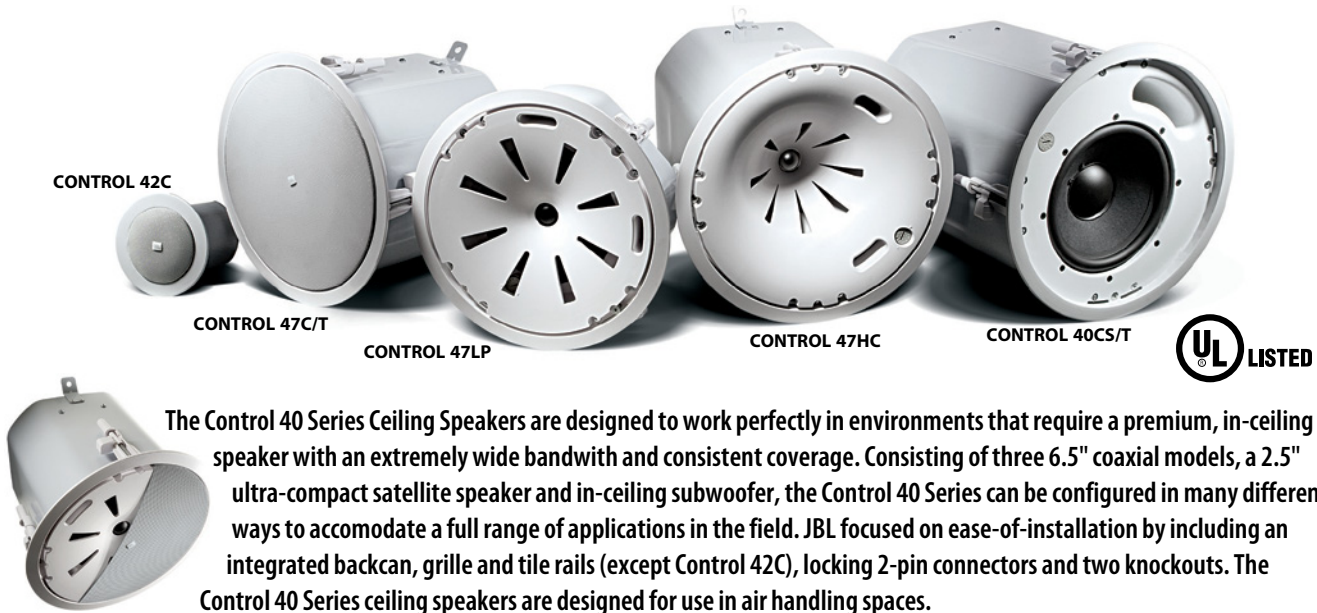
² IEC standard, full bandwidth pink noise with a crest factor (peak to average ratio) of 6 dB.

³ Average 1 kHz to 16 kHz.

Control® 40 Series Extended Performance Small Format Ceiling Speakers

key features

- DESIGNED FOR HIGH-DEMAND PROFESSIONAL APPLICATIONS
- THREE COAXIAL MODELS PLUS AN ULTRA-COMPACT SATELLITE SPEAKER AND IN-CEILING SUBWOOFER
- INTEGRATED BACKCANS FOR EASE-OF-USE IN THE FIELD
- SWITCHABLE FOR USE AS AN 8 OHMS SPEAKER OR AS PART OF A 70V/100V DISTRIBUTED SYSTEM (EXCEPT 42C)



The Control 40 Series Ceiling Speakers are designed to work perfectly in environments that require a premium, in-ceiling speaker with an extremely wide bandwidth and consistent coverage. Consisting of three 6.5" coaxial models, a 2.5" ultra-compact satellite speaker and in-ceiling subwoofer, the Control 40 Series can be configured in many different ways to accommodate a full range of applications in the field. JBL focused on ease-of-installation by including an integrated backcan, grille and tile rails (except Control 42C), locking 2-pin connectors and two knockouts. The Control 40 Series ceiling speakers are designed for use in air handling spaces.

CONTROL 47C/T

The Control 47C/T and Control 47LP are designed for applications that require extremely wide bandwidth and very consistent coverage. JBL's RBI™ (Radiation Boundary Integrator®) allows for a seamless integration between the coaxially mounted tweeter and LF driver, resulting in consistent sound quality with little variation in the listening area.

CONTROL 47LP (Low Profile Backcan)

The Control 47LP is identical to the Control 47 but equipped with a shallow backcan for use in areas with restricted mounting depths.

CONTROL 47HC

The Control 47HC is designed for applications that require a narrow focused beamwidth pattern and very consistent coverage. The large backcan in combination with the LF driver design, provides extended bass response.

CONTROL 42C

The Control 42C is an ultra-compact in-ceiling satellite loudspeaker designed for use with the Control 40CS/T subwoofer. It offers an unobtrusive design which is ideal for a wide range of installations.

CONTROL 40CS/T

The Control 40CS/T is a direct radiating, high impact 8" subwoofer designed for powerful bass response in an in-ceiling loudspeaker. It features a built-in passive crossover network and 4 high-passed satellite outputs enabling it to be used as part of a subwoofer/satellite system.

specifications

	CONTROL 47C/T	CONTROL 47LP	CONTROL 47HC	CONTROL 42C	CONTROL 40CS/T
SYSTEM TYPE	Two-Way 6.5" Coaxial Ceiling Loudspeaker w/ Extended Bass	Two-Way 6.5" Coaxial Ceiling Low Profile Loudspeaker	Two-Way 6.5" Coaxial Ceiling Loudspeaker for High Ceilings	2.5" Ultra-Compact In-Ceiling Satellite Loudspeaker	8" In-Ceiling Subwoofer with Crossover
FREQUENCY RANGE (-10dB) ¹	55 Hz - 20 kHz	68 Hz - 20 kHz	55 Hz - 17 kHz	140 Hz - 20 kHz	32 Hz - 300 Hz
POWER CAPACITY ² : PROGRAM PINK	150 W 75 W	150 W 75 W	150 W 75 W	30 W 15 W	200 W 100 W
NOMINAL DISPERSION ³	120° conical	120° conical	75° conical	160° conical	Omnidirectional
NOMINAL SENSITIVITY 1 W, 1 m	91 dB	91 dB	93 dB	82 dB	95 dB (ceiling, near corner) 89 dB (center of ceiling)
RATED IMPEDANCE	8 ohms	8 ohms	8 ohms	16 ohms	8 ohms
TRANSFORMER TAPS	60 W, 30 W, 15 W, (& 7.5 W @ 70 V)	60 W, 30 W, 15 W, (& 7.5 W @ 70 V)	60 W, 30 W, 15 W, (& 7.5 W @ 70 V)	N/A	80, 40, 20 (& 10 W @ 70 V)
COMPONENTS: LOW FREQ. HIGH FREQ.	6 1/2 in (165 mm) 1 in (25 mm)	6 1/2 in (165 mm) 1 in (25 mm)	6 1/2 in (165 mm) 1 in (25 mm)	2 1/2 in (60 mm)	8 in (200 mm)
ENCLOSURE	Formed steel backcan	Formed steel backcan	Formed steel backcan	Formed steel backcan	Formed steel backcan
DIMENSIONS (DIAMETER x DEPTH)	305 x 259 mm 12 x 10.2 in	305 x 142 mm 12 x 5.6 in	332 x 351 mm 13.1 x 13.8 in	127 x 94 mm 5.0 x 4.2 in	332 x 338 mm 13.1 x 13.3 in
NET WEIGHT (each)	5 kg (11 lb)	4.3 kg (9.5 lb)	6.4 kg (14 lb)	.7 kg (1.6 lb)	8.1 kg (17.9 lb)

Control® Contractor 20 Series Premium Small Format Ceiling

key features

- ALL-IN-ONE CONVENIENCE FOR FAST INSTALLATION AND EASY STOCKING
- AGENCY APPROVED FOR USE IN AIR HANDLING SPACES
- PREMIUM PERFORMANCE
- SONICGUARD™ OVERLOAD PROTECTION

JBL Control Contractor Ceiling Speakers deliver high power handling, overload protection and exceptional sound level capability and are packaged as complete assemblies, including integral backcan, front grille and tile bridge support hardware. Innovative design features such as titanium-coated tweeters and JBL's unique diffraction-horn loading provide broad, even coverage throughout the listening area.

Installation of JBL Control Contractor Ceiling Speakers is quick and easy and can be accomplished without requiring access above the ceiling. Bracketry for suspended ceilings is included. The speaker is held securely in place via mounting ears which rotate into position and lock into place. Inputs are attached to a removable locking connector (included) which can be prewired before installing for ultra-fast snap-on installation. All models (except 26-DT) contain formed steel backcans and are suitable for use in air handling spaces per UL1480 and UL2043. Specific models (noted below) feature top quality transformers pre-installed inside the speaker assembly for use on 70V/100V distributed lines. Tap selection is conveniently located on the front of the speaker (except Micro).

CONTROL 24C/CT MICRO AND CONTROL 24CT MICROPLUS

The Control 24C/CT Micro and Control 24CT MicroPlus are compact, easy-to-install in-ceiling speakers, providing full, high quality sound for background music and music-plus-paging systems and include multi-tap transformers.



24C/CT MICRO
24CT MICROPLUS

CONTROL 26-DT

The Control 26-DT is an 8" driver assembly designed for sound systems requiring a higher fidelity sound and easy installation into standard backcans. A high quality, low insertion-loss transformer is supplied for use on 70V/100V distributed lines.



26-DT

ACCESSORIES

New Construction Bracket: MTC-xxNC*
Plaster Ring Bracket: MTC-xxMR*

Trim Rings: Allow for installation into existing ceiling speaker cutouts that are larger than the speaker's normal cutout size. MTC-xxTR*.

MTC-48TRx12: Tile Rails for 4' x 4' ceiling tiles (pack of 12 rails)

* These models are available in different sizes. Specify speaker model when ordering.

CONTROL 24C/CT

The Control 24C contains a coaxially mounted 4" woofer and 3/4" titanium-coated tweeter, providing high-fidelity sound over a wide coverage area. The Control 24CT is available in black (C24CT-BK).

CONTROL 26C/CT and CONTROL 26CT-LS

The Control 26C contains a coaxially mounted 6 1/2" woofer and 3/4" titanium-coated tweeter, able to deliver maximum sound level over a defined area. The Control 26CT-LS is UL1480/UUMW certified for use in fire alarm and voice evacuation systems.

CONTROL 19CS/CST

The unique Nested-Chamber design and Linear Dynamic™ port of the JBL Control 19CS subwoofer allows powerful low-frequency reinforcement from a compact in-ceiling enclosure. The Control 19CS is an ideal addition to any system, resulting in full-fidelity, high level sound. The optional Control 19CST has a special subwoofer-band transformer for use on 70V or 100V line distribution systems.



24C/CT

26C/CT
26CT-LS

19CS/CST



specifications

	24C/CT MICRO 24CT MICROPLUS	24C/CT & 24 CT-BK	26C/CT & 26CT-LS	26-DT	19CS/CST
FREQUENCY RANGE (-10dB) ¹	85 Hz - 25 kHz	80 Hz - 20 kHz	75 Hz - 20 kHz (26C/CT) 80 Hz - 20 kHz (26CT-LS)	70 Hz - 20 kHz	42 Hz - 200 Hz
POWER CAPACITY: PROGRAM ² PINK ³	30 W 15 W	80 W 40 W	150 W 75 W		200 W 100 W
NOMINAL DISPERSION	150° conical	130° conical	110° conical	90°	Omnidirectional
NOMINAL SENSITIVITY 1 W, 1 m	86 dB	86 dB	89 dB	89 dB (60 W tap)	95 dB (ceiling, near corner) 89 dB (center of ceiling)
NOMINAL IMPEDANCE	8 ohms (24C Micro)	16 ohms (24C)	16 ohms (26C)		8 ohms (19CS)
TRANSFORMER TAPS: 100V	8, 4, 2, 1 W (24CT Micro) 25, 12 W (24CT MicroPlus)	30, 15, 7.5 W (24CT)	60, 30, 15 W (26CT)	60, 30, 15 W	60, 30, 15 W (19CST)
70.7 V	8, 4, 2, 1, .5 W (24CT Micro) 25, 12, 6 W (24CT MicroPlus)	30, 15, 7.5, 3.7 W (24CT)	60, 30, 15, 7.5 W (26CT)	60, 30, 15, 7.5 W	60, 30, 15, 7.5 W (19CST)
COMPONENTS: LOW FREQ.	4 1/2 in (115 mm)	4 in (100 mm)	6 1/2 in (165 mm)	6 1/2 in (165 mm)*	8 in (200 mm)
HIGH FREQ.	1/2 in (12 mm)	3/4 in (19 mm)	3/4 in (19 mm)	3/4 in (19 mm)	
ENCLOSURE	Formed steel backcan	Formed steel backcan	Formed steel backcan		Formed steel backcan
DIMENSIONS (H x DIA.)	106 x 195 mm 4.2 x 7.7 in	200 x 195 mm 7.9 x 7.7 in	210 x 252 mm 8.3 x 9.9 in	120 x 200 mm 4.72 x 7.87 in	345 x 345 mm 13.6 x 13.6 in
NET WEIGHT (each)	24C Micro: 1.6 kg (3.6 lb) 24CT Micro: 2.0 kg (4.4 lb) 24CT MicroPlus: 2.5 kg (5.5 lb)	24C: 2.7 kg (6 lb) 24CT: 3.5 kg (8 lb)	26C: 3.4 kg (7.5 lb) 26CT: 4.2 kg (10 lb)	1.9 kg (4.2 lb) *8" compatible mounting	19CS: 5.5 kg (12 lb) 19CST: 6.3 kg (14 lb)

¹ Half-space (mounted in-wall or in ceiling)

² Continuous Program Power, which is a conservative expression of the system's ability to handle normal speech and music program material

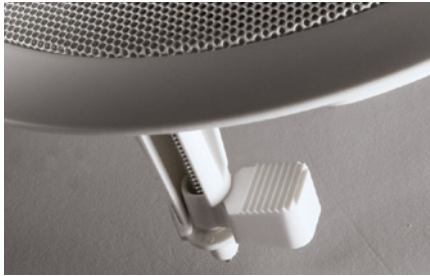
and is defined as 3 dB above the Continuous Pink Noise rating (IEC-shaped pink noise with a 6 dB crest factor, for 100 hours continuously).
³ Rated in Continuous Pink Noise for 100 hours.

8100 Series

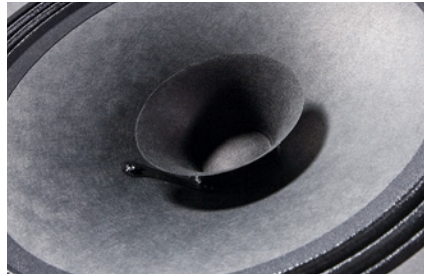
Sculpted Grille Dual-Cone Ceiling Speakers

key features

- HIGH SENSITIVITY FOR MAXIMUM POWER EFFICIENCY
- 6W TRANSFORMER FOR USE ON 70V / 100V DISTRIBUTED LINES
- 8124 & 8128—OPEN-BACK DESIGN FOR APPLICATIONS NOT REQUIRING AN IN-CEILING BACKCAN
- 8128—PRE-INSTALL BACKCAN DESIGN



The 8124 and 8128 Ceiling Speakers are designed for fast and easy installation with built-in dog-ears for easy installations, light weight and open-back design for applications not requiring an in-ceiling backcan.



The 8124 (4-inch (100 mm) full-range loudspeaker) and the 8-inch (200 mm) full-range loudspeakers feature high sensitivity drivers that deliver maximum sound levels using minimal amplifier power. (8128/8130 shown)



70V/100V taps for ease-of-use in the field. For additional installation help, accessories such as the MTC-RAIL tile rail sets and C-Rings are available separately.

High sensitivity at a cost-effective price point, the 8100 Series is an easy to install loudspeaker solution for a wide variety of commercial sound applications. With its contemporary grill design, the 8100 Series loudspeakers are ideal for a variety of settings ranging from restaurant and retail settings to professional offices and reception areas. All models feature 70V/100V taps.

8124

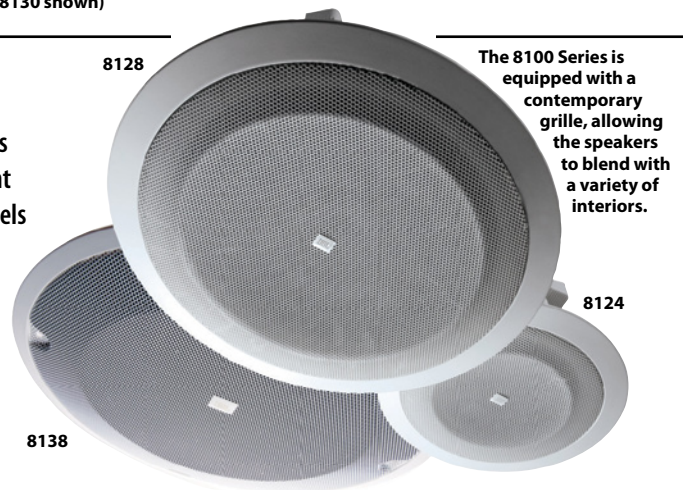
The **8124** is a 4-inch (100 mm) full-range loudspeaker, featuring a high sensitivity driver that provides 130° conical coverage in a lightweight (2.5 lb) package.

8128

The **8128** is an 8-inch (200 mm) full-range loudspeaker, featuring a high sensitivity driver that provides 90° conical coverage in a lightweight (3.0 lb) package.

8138

The **8138** is an 8-inch (200 mm) full-range loudspeaker designed for use with a pre-install in-ceiling backcan, resulting in high sensitivity performance at a cost effective price point.



The 8100 Series is equipped with a contemporary grille, allowing the speakers to blend with a variety of interiors.

ACCESSORIES

Because of the very light weight of 8124 and 8128, tile rails may not be required for some in-ceiling applications. They are not packaged with these models, however MTC-RAIL tile rail sets and MTC-8124C and MTC-8128C C-Rings are available separately. The 8138 is designed for use with MTC-81BB8 backcan and MTC-81TB8 tile bridge.

specifications

	8124	8128	8138
SYSTEM TYPE	100 mm (4 in) Full-Range	200 mm (8 in) Full-Range	200 mm (8 in) Full-Range
FREQUENCY RANGE (-10dB)	60 Hz – 18 kHz	50 Hz – 16 kHz	95 Hz – 18 kHz
DRIVER POWER CAPACITY	20 W	25 W	25 W
NOMINAL DISPERSION	130° conical	90° conical	90° conical
NOMINAL SENSITIVITY 1 W, 1 m	93 dB (1 kHz - 8 kHz)	97 dB (1 kHz - 8 kHz)	97 dB (1 kHz - 8 kHz)
NOMINAL IMPEDANCE	8 ohms	8 ohms	8 ohms
TRANSFORMER TAPS: 100V / 70.7 V	6 W, 3 W, 1.5 W 6 W, 3 W, 1.5 W, 0.75 W	6 W, 3 W, 1.5 W 6 W, 3 W, 1.5 W, 0.75 W	6 W, 3 W, 1.5 W 6 W, 3 W, 1.5 W, 0.75 W
DIMENSIONS (DIA. x DEPTH)	206 mm (8.1 in) diameter round baffle x 89 mm (3.5 in) depth from back of baffle	287 mm (11.3 in) diameter round baffle x 104 mm (4.1 in) depth from back of baffle	327 mm (12.9 in) diameter round baffle x 84 mm (3.3 in) depth from back of baffle
BACKCAN	Open-back, no backcan	Open-back, no backcan	MTC-81BB8 backcan with MTC-81TB8 tile bridge
CUTOUT DIMENSION	175 mm diameter (6.9 in)	256 mm diameter (10.1 in)	300 mm diameter (11.75 in) with tile bridge & backbox
NET WEIGHT (each)	1.2 kg (2.5 lb)	1.4 kg (3.0 lb)	1.4 kg (3.0 lb)



The **8138** fits the MTC-81BB8 backcan and MTC-81TB8 tile bridge, or can be used with most in-ceiling backcan/tile bridge systems designed with four mounting points on a 286 mm (11 1/4 in) diameter mounting circle.

Commercial Series CSS Ceiling and Surface-Mount Speakers

key features

- ▶ INTEGRATES WITH OTHER PRODUCTS IN THE JBL CS COMMERCIAL SOLUTIONS SERIES
- ▶ SURFACE-MOUNT SPEAKER HANDLES 100V, 70V AND LOW-IMPEDANCE
- ▶ CEILING SPEAKERS COME PRE-ASSEMBLED WITH GRILLE, SPEAKER AND TRANSFORMER AND HANDLE 100V, 70V AND 25V DISTRIBUTED SYSTEMS

Introducing JBL CS Series:

COMMERCIAL SOLUTIONS SERIES Sound Systems

The JBL Commercial CS (Commercial Solutions) Series consists of mixers (CSM), wall plate remotes (CSR), paging microphones (CSPM), amplifiers (CSA), transformers (CST) and speakers (CSS) – all designed to work optimally with one another as a commercial sound system solution. See the JBL Commercial CS Series section of this catalog for detailed information about these products and systems.

Technical support related to these systems is provided by Harman Signal Processing Group. CSM mixers, CSR wall plate remotes and CSPM paging microphones are made, sold and supported by Harman Signal Processing. CSA and CST amplifier and transformer modules are made, sold and supported by Crown. Loudspeakers are from JBL Professional.



The JBL Commercial Series provides affordable performance for paging and background music applications in retail stores, restaurants, schools and other facilities. For information on integrating these speakers with other products in the JBL Commercial CS Series, please see page 373.

CSS8004, CSS8008 and CSS8018

High sensitivity provides maximum sound level even at low tap settings. Triple voltage transformers (100V, 70V and 25V) ensure compatibility with any distributed system. Large diameter voice coil, Kapton™ coil-former, and high-temperature wire for superior power dissipation and long-term reliability. The driver, grille and transformer come pre-assembled for ease of installation. Accessories include matching pre-install back cans (required for proper installation) and tile rails. UL1480, UL2043.

CSS8004, CSS8008 and CSS8018 ACCESSORIES

- MTC-BB4x6:** Pre-install backcan for CSS8004. Pack of 6 pcs;
- MTC-BB8x6:** Pre-install backcan for CSS8008 and CSS8018. Pack of 6 pcs;
- MTC-TR4/8x12:** Tile rails for CSS-BR4 and CSS-BR8 backcans. Pack of 12 pcs. for 6 speakers.

CSS-1S/T

CSS-1S/T is a versatile, compact two-way loudspeaker designed for use on 100V or 70V distributed speaker lines, or in 8 ohm direct mode. The 135 mm (5.25 inch) low frequency loudspeaker and 19 mm (.75 inch) tweeter reproduce full-range sound quality for foreground or background music. Aimable wall-mount bracket included.



CSS-1S/T

specifications

	CSS8004	CSS8008	CSS8018	CSS-1S/T
DRIVER SIZE (DUAL CONE)	100 mm (4 in)	200 mm (8 in)	200 mm (8 in)	135 mm (5.25 in) plus 19 mm (.75 in)
DRIVER SENSITIVITY (MID-RANGE)	90 dB	96 dB	97 dB	86 dB
FREQUENCY RANGE (-10 dB)				n/a
DRIVER /GRILLE ASSEMBLY	85 Hz – 18 kHz	55 Hz – 16 kHz	50 Hz – 17 kHz	120° x 120°
INSTALLED IN CSS-BB BACKCAN	130 Hz – 18 kHz	100 Hz – 16 kHz	90 Hz – 17 kHz	60W
COVERAGE	175°	120°	110°	10 W, 5 W and 8 ohms
DRIVER POWER HANDLING ¹	15 W	15 W	20 W	10 W, 5 W, 2.5 W and 8 ohms
TRANSFORMER TAPS: 100V	5 W, 2.5 W, 1.3 W	5 W, 2.5 W, 1.3 W	10 W, 5 W, 2.5 W	10 W, 5 W, 2.5 W and 8 ohms
70.7 V	5 W, 2.5 W, 1.3 W, 0.7 W	5 W, 2.5 W, 1.3 W, 0.7 W	10 W, 5 W, 2.5 W, 1.3 W	n/a
25 V	5 W, 2.5 W, 1.3 W, 0.7 W	5 W, 2.5 W, 1.3 W, 0.7 W	10 W, 5 W, 2.5 W, 1.3 W	
MATCHING CSS BACKCAN	CSS-BB4	CSS-BB8 (0.15 cu ft)	CSS-BB8 (0.15 cu ft)	
CUTOUT DIAMETER: OPEN BACK	125 mm (5.0 in)	216 mm (8.5 in)	216 mm (8.5 in)	DIMENSIONS
CUTOUT DIAMETER: IN CSS-BB BACKCAN	170 mm (6.7 in)	295 mm (11.7 in)	295 mm (11.7 in)	229 x 159 x 143 mm
DEPTH (BEHIND GRILLE)	94 mm (3.7 in)	71 mm (2.8 in)	73 mm (2.9 in)	(9.0 x 6.3 x 5.6 in)
GRILLE DIAMETER	198 mm (7.8 in)	327 mm (12.9 in)	327 mm (12.9 in)	2.0 kg (4.5 lb)
NET WEIGHT (each)	0.90 kg (1.0 lb)	1.27 kg (2.8 lb)	1.58 kg (5 lb)	

¹Continuous Pink Noise Rating (IEC-shaped pink noise with a 6 dB crest factor, for 100 hrs continuously).

Studio Monitors

JBL has more experience designing and building transducers for professional studio monitors than any other company. We not only use the latest engineering and design equipment, but also the most important test device of all, the human ear. We believe in physics, not fads, so while other companies pick parts off somebody else's shelf, we utilize our 65 years of experience in transducer design to create the perfect transducer for each system.

In the great tradition of JBL Studio Monitors, we proudly introduce the M2 Master Reference Monitor, which for the first time, makes large-format monitoring viable for a very broad range of facilities. The M2 joins our family of LSR Series Studio Monitors, leveraging the latest JBL transducer and system technologies to provide a most accurate studio reference.

The Linear Spatial Reference (LSR) philosophy is based on a set of design goals that carefully control the overall performance of the system in a variety of acoustic spaces. Instead of focusing solely on a simple measurement such as on-axis frequency response, JBL measures systems in a field 360 degrees around the speaker and engineers the entire system to ensure the off-axis response reflected to the mix position is neutral.

Then JBL goes a step further to overcome problems caused by low frequency room modes which plague mix engineers. A JBL first, the RMC™ Room Mode Correction system is included in the LSR6300 and LSR4300 Series monitors and the MSC1 Monitor System Controller. The RMC system includes everything needed to analyze LF problems and restore accuracy at the mix position. Our broad studio monitor line incorporates models to meet the most demanding performance and budgetary requirements. No matter which model you chose, your mixes will hit their mark.

JBL PROFESSIONAL IS THE PROUD RECIPIENT OF THE 2005 TECHNICAL GRAMMY®
The National Academy Of Recording Arts and Sciences Presented the 2005 Technical GRAMMY® Award to JBL Professional for Continual Mastery and Innovation in Concert, Studio, Cinema and Broadcast Sound and Monitors to Ensure Exacting Standards for the Most Accurate Sonic Experience.



M2 Master Reference Monitor

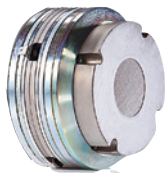
- DUAL DIAPHRAGM, DUAL VOICE COIL COMPRESSION DRIVER
- DIFFERENTIAL DRIVE LOW FREQUENCY TRANSDUCER WITH DUAL VOICE COILS
- IMAGE CONTROL™ WAVEGUIDE PROVIDES EXCEPTIONAL IMAGING AND DETAIL
- COMPACT FOOTPRINT ALLOWS PLACEMENT FLEXIBILITY AND USE BEHIND-SCREEN APPLICATIONS
- VERY HIGH SPL AND DYNAMIC RANGE FOR DEMANDING MUSIC AND FILM PRODUCTION APPLICATIONS

The new standard of accuracy and performance for today's production rooms.

Until now, the impressive large-format monitoring experience has been unattainable in small and medium-size rooms. With the introduction of the M2 Master Reference Monitor, JBL brings world-class large-format monitoring to a broad range of production spaces. Leveraging a new generation of high-output, ultra-low distortion JBL transducers, the M2 provides an in-room response of 20 Hz to 40 kHz, with the high SPL and dynamic range required for demanding music and film production. The M2's revolutionary Image Control™ waveguide ensures stunning imaging across a wide listening area. With a footprint of only 14 inches deep and 20 inches wide, the M2 two-way system outperforms many larger and more costly 3-way and 4-way systems, making big, detailed sound an option for artist studios, mastering facilities, small mix stages and screening rooms.

ENABLING TECHNOLOGIES

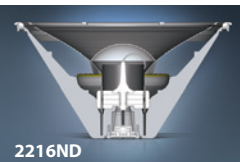
The D2 Dual-Diaphragm, Dual Voice Coil High-Frequency Compression Driver provides smooth extended high frequency response to 40 kHz, with extraordinary output and ultra-low distortion.



The advanced Image Control™ waveguide produces remarkable imaging, neutral broad-band in-room response and enhanced high-frequency coverage.

The 2216ND Differential Drive® Low Frequency Transducer

is made with two neodymium magnets and dual voice coils employing patented low thermal coefficient of resistance wire. This allows very high output with minimal power compression, resulting in deep distortion-free bass even at very high SPL.



M2 (shown with removable grille)

specifications

M2	
SYSTEM FORMAT	2-Way Floor Free Standing or Soffit Mountable
FREQUENCY RANGE: IN-ROOM ANECHOIC	20 Hz – 40 kHz 40 Hz – 22 kHz (±1 dB)
WAVE GUIDE DISPERSION	120° (H) x 100° (V)
SENSITIVITY (1 W/1 m)	92 dB
CONTINUOUS/PEAK SPL (1 m)	117 dB/123 dB; 108 dB peak SPL @ 25 ft
DRIVERS: LF HF	2216ND 15" Differential Drive Woofer D2430K Dual Diaphragm, Dual Voice Coil Compression Driver
INPUTS	Spring terminals
ENCLOSURE	25 mm (1 in) MDF Satin black laquer
DIMENSIONS (H x W x D)	1220 x 510 x 360 mm (48 x 20 x 14 in)
NET WEIGHT (each)	58.5 kg (129 lb)



CROWN POWER

The M2 System is bi-amplified and tuned with Crown iTech 5000HD amplifiers for unmatched power and transient response. Multiple systems can be networked and centrally controlled using Harman System Architect™ Software. System configurations include BSS Soundweb™ London signal processing and I/O options.* Each speaker can be calibrated and optimized for room placement and acoustics.

*The system requires one Crown iTech 5000HD power amp for each speaker, or BSS Soundweb London Processor with Crown MA5000i power amp.

The LSR Series

- LINEAR SPATIAL REFERENCE DESIGN
- RMC™ ROOM MODE CORRECTION
- BALANCED AND UNBALANCED INPUTS THAT ACCOMMODATE A WIDE RANGE OF INPUT SIGNAL LEVELS
- MOUNTING POINTS FOR INDUSTRY-STANDARD MOUNTING HARDWARE
- EXCELLENT ON- AND OFF-AXIS PERFORMANCE
- HIGH SPL CAPABILITY

The JBL LSR6300, LSR4300 and the LSR2300 Series go “beyond accurate” all the way to “stunning” by incorporating features which reduce the effect of problems in the room. We start with JBL transducer and network technologies that provide ultra-flat response and exceptional dynamic range. Then we incorporate features that help to overcome the contributions of the room. So even if you work in a small home studio, you’ll have clear sound at the mix position. All LSR models are engineered for use in the most demanding production environments. With JBL’s LSR6300 Series, LSR4300 Series, and the New LSR2300 Series, mixing is a pleasure.

It takes more than an accurate speaker system to have accurate response at the mix position. Problems in the room dramatically color what you hear at the mix position. Walls and corners can affect response. And standing waves at the mix position can lead you to misjudge bass content. As a result, a speaker which measures flat in an anechoic chamber may “tell you a different story” in the room. The key to accuracy is tackling the effect of boundaries, standing waves and reflections. In developing the LSR Series, JBL examined each problem in the environment and created the perfect solution. Even if you work in a small control room, an LSR system will provide smooth accurate response at the mixer’s chair.

LSR (Linear Spatial Reference Technology)

Much of what you hear at the mix position is reflected—not direct sound. Linear Spatial Reference Technology ensures mid and high frequency response of our speakers is neutral at the mix position. The exact geometry of the waveguide, the interaction of the woofer and tweeter, and the network are designed to provide an accurate listening window of ± 30 degree horizontal, ± 15 degree vertical. As a result, the reflected sound that reaches the mix position is smooth and accurate.

RMC™ (Room Mode Correction)

Room modes or standing waves can mislead you give you a false impression of low frequency content in the mix. JBL is first to supply a complete solution for identifying and overcoming the negative effect of room modes. The LSR6328P, LSR6312SP, all LSR4300 models and the MSC1 Monitor System Controller are equipped with RMC™, JBL’s ingenious Room Mode Correction System. The LSR6300 RMC Calibration kit includes everything needed to identify room modes and set the LSR6300 series on-board parametric equalizer. JBL engineers took the RMC solution one step further by equipping the LSR4300 Series speakers with an automated analyzer and corrective filter. Both systems dramatically improve low frequency performance at the mix position. The LSR2300 Series owner can enjoy the benefits of JBL RMC Technology by adding the optional MSC1 Monitor System Controller with RMC that, in addition to controlling the system, tunes it for perfect mixes in any room.

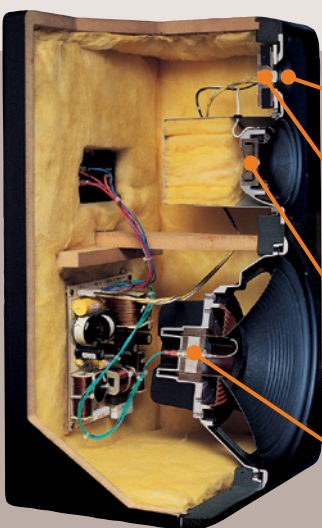
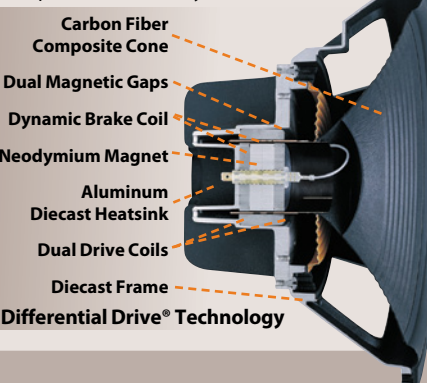
Built-in Boundary Compensation

With the advent of multi-channel production, space limitations may compromise the positioning of the speakers. JBL’s powered LSR6300 models include boundary compensation switches, while the RMC™ Systems in the LSR4300 and the MSC1 Monitor System Controller include filters to offset the increase in bass response that occurs when the speaker is placed near a wall, in a corner or on a work surface.

Stunning Sound

Starting with application-designed and built transducers engineered for extremely accurate response and superb power handling, the stunning sound of the LSR Series Studio Monitors make long mix sessions a pleasure. The LSR6300 line* incorporates the single most significant advance in monitor history: JBL’s patented Differential Drive® Technology. Providing unparalleled performance, the woofer permanently dispels the notion that better linearity, higher power handling and greater dynamic accuracy are somehow unobtainable. JBL’s Differential Drive uses two drive coils with twice the thermal surface area of traditional speakers. As a result, LSR6300 systems provide higher peak output with less spectral shift that causes monitors to sound different when driven at different power levels. All LSR Series speakers withstand the JBL loudspeaker torture test driven at full rated power for over 100 hours. Meeting higher standards than any other loudspeaker manufacturer, JBL’s demanding test ensures that the LSR Studio Monitors give you accurate mixes year after year.

* (LSR6328P, LSR6332, LSR6312SP)



LSR6332

Elliptical Oblate Spheroidal (EOS) Waveguide

Designed for a targeted listening window of ± 30 degrees horizontally and ± 15 degrees vertically, the EOS provides smooth response through the entire listening window within 1.5 dB of the on-axis response. The result: The listener, even far off-axis, can hear an accurate representation of the on-axis response.

Composite High Frequency Device

The 1" magnetically shielded dome high frequency device incorporates titanium and composite materials to improve transient response and reduce distortion. The result: By reducing distortion in the lower operating range where the human ear is most sensitive, listener fatigue is dramatically reduced.

500G Midrange Transducer

The midrange is a 2" neodymium motor with a 5-inch woven Kevlar™ cone. The powerful motor structure was chosen to support the low crossover point to the woofer. In order to achieve the goal of accurate spatial response, the crossover points match the directivity characteristics of the three transducers for optimum spatial response. The result: Absolute pinpoint accuracy.

Dynamic Braking

LSR6300 low frequency transducers are equipped with an electromagnetic braking coil that reduces the effects of extreme excursion with high transient material. This causes more linear compliance resulting in lower distortion, more accurate reproduction and increased reliability.



Reinforced mounting points on LSR speakers allow convenient positioning and installation of multi-channel surround systems for any mixing application, in any studio environment.

LSR6300

S E R I E S

- LINEAR SPATIAL REFERENCE DESIGN
- RMC™ ROOM MODE CORRECTION SYSTEM
- THX pm3® APPROVED
- INTEGRATED MOUNTING POINTS
- PATENTED DIFFERENTIAL DRIVE® TECHNOLOGY



LSR6325P-1

The compact **LSR6325P-1** provides exceptional performance for use in applications where accuracy is a must, but space is limited. With a 5.25" high-excursion woofer, 1" damped titanium composite tweeter, and 150 watts of amplification, it outperforms many larger systems. A boundary compensation setting adjusts response when used on workstation surfaces. When used with the LSR6312SP Subwoofer, the LSR6325P-1 is the heart of an exceptionally accurate yet space efficient full-range system.

LSR6328P

The **LSR6328P** is THE choice for stereo and multi-channel music and post audio applications where accuracy and high SPL are required. With ruler-flat +1 dB/-1.5 dB response from 50 Hz to 20 kHz, low frequency extension to 36 Hz, boundary compensation and JBL's new RMC™ system, the LSR6328P gives you exceptional low frequency performance in any room. The system is bi-amplified with a 250 Watt LF amplifier and a 120 Watt HF amplifier. Based around JBL's patented 8" Differential Drive® carbon-fiber woofer and a 1" titanium composite tweeter, the system produces smooth response and extraordinary SPL. Wall mounting provisions make the LSR6328P perfect for installation in multi-channel editorial rooms.

LSR6332

If you need a larger monitor with high SPL, for mid-field, soffit or behind the screen applications, the **LSR6332** is your choice. This three-way non-powered system can handle 200 watts continuous pink noise/800 watts peak and will generate 112 dB SPL at 1 meter. The LSR6332 incorporates a 12" neodymium Differential Drive dual coil woofer, 5" Kevlar™ midrange speaker and 1" titanium composite tweeter. The system is exceptionally flat, +1 dB/ -1.5 dB from 60 Hz to 22 kHz with LF extension to 35 Hz. User features include a -1 dB HF level setting, and dual 5-way binding posts for bi-wire capability.

LSR6312SP

The **LSR6312SP** powered subwoofer is based on a 12" woofer with JBL's patented neodymium Differential Drive and 260 watts of power. An integral bass-management system provides all the features you need for today's multi-format surround production including: LCR and Direct LFE inputs, summed output for chaining multiple subwoofers, -4 dB alignment setting, and JBL's new RMC Room Mode Correction system. RMC Calibration Kit included.



RMC™ (Room Mode Correction) Calibration Kit
The LSR6328P and LSR6312SP Subwoofer are equipped with RMC—JBL's ingenious method of zeroing-out bass problems at the mix position caused by room modes. A built-in 1/10th octave parametric equalizer allows you to correct problems below 100 Hz. The RMC Calibration Kit gives you everything you need to identify problematic room modes and tune your system. The LSR6325P-1 and LSR6332 enjoy the benefits of RMC when used in a system with the LSR6312SP Subwoofer.



LSR6325P-1



LSR6328P



LSR6332

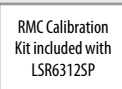
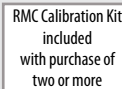


LSR6312SP

specifications

	LSR6325P-1	LSR6328P	LSR6332	LSR6312SP
FREQUENCY RESPONSE	70 Hz - 20 kHz (+1, -2 dB)	50 Hz - 20 kHz (+1, -1.5 dB)	50 Hz - 20 kHz (+1, -1.5 dB)	28 Hz - 80 Hz (-6 dB)
LOW FREQUENCY EXTENSION	-10 dB: 48 Hz	-10 dB: 36 Hz	-10 dB: 36 Hz	-10 dB: 26 Hz
AMPLIFIER POWER (LF/HF)	100 W/50 W	250 W/120 W	250 W/120 W	260 W
SPL (CONTINUOUS/PEAK ¹)	106 dB/109 dB	108 dB/111 dB	108 dB/111 dB	112 dB/115 dB
LONG-TERM MAXIMUM POWER				200 W cont/800 W peak
DRIVERS (LF, MF, HF)	5.25 in/1 in	8 in/1 in	8 in/1 in	12 in/5 in/1 in
SENSITIVITY	96 dB/1m	96 dB/1m	96 dB/1m	93 dB/2.83V/1 m (90 dB/1 W/1 m)
SYSTEM IMPEDANCE				4 ohms
CROSSOVER FREQUENCIES	2.3 kHz	1.7 kHz	1.7 kHz	250 Hz/2.2 kHz
HF ADJUSTMENT	+1.5 dB/-1.5 dB	+1 dB/-1 dB	+1 dB/-1 dB	-1 dB
INPUTS	XLR, RCA	XLR, ¼ in	XLR, ¼ in	Dual 5-Way Binding
MAGNETIC SHIELDING	Yes	Yes	Yes	Yes
MOUNTING CAPABILITY	Yes	Yes	Yes	Yes
FINISH	Dark Graphite	Dark Graphite	Dark Graphite	Dark Graphite
DIMENSIONS (H x W x D)	269 x 173 x 241 mm (10.6 x 6.8 x 9.5 in)	406 x 330 x 325 mm (16 x 13 x 12.5 in)	406 x 330 x 325 mm (16 x 13 x 12.5 in)	394 x 635 x 292 mm (15.5 x 25 x 11.5 in)
NET WEIGHT (each)	7.7 kg (17 lb)	17.7 kg (39 lb)	17.7 kg (39 lb)	22.7 kg (50 lb)

¹ Calculated using average 1 watt/ 1 meter sensitivity and peak amplifier output.



STUDIO MONITORS

LSR4300

S E R I E S

- LINEAR SPATIAL REFERENCE DESIGN
- AUTOMATED RMC™ ROOM MODE CORRECTION
- SUPPLIED WIRELESS REMOTE CONTROL AND LSR4300 CONTROL CENTER SOFTWARE

- HARMAN HIQNET™ NETWORK FOR SYSTEM CONTROL
- MOUNTING POINTS FOR INDUSTRY-STANDARD MOUNTING HARDWARE
- EXCEPTIONALLY ACCURATE IN ANY MIX ENVIRONMENT



The first “self-aware” monitoring system, the JBL LSR4300 Studio Monitors incorporate powerful network intelligence and RMC™ Room Mode Correction in the speaker, to deliver superb sound and accurate mixes in any room. With digital inputs, and computer connectivity, the LSR4300s are the ultimate monitor for the modern production environment. The LSR4300 series have become THE choice of facilities engaged in music, post, broadcast, stereo and surround-sound production.

ACCURACY

JBL’s next generation automated RMC™ Room Mode Correction system incorporates a powerful analyzer into each speaker that measures and automatically compensates for problems caused by low frequency standing waves and proximity to boundaries. This creates a stunningly clear and articulate sound stage enabling reliable mixes that translate faithfully to the outside world.

CALIBRATION & CONFIGURATION

Truly putting technology to work, system calibration is accomplished by simply plugging the LSR4300 calibration microphone into the speaker and pushing a button. The results are a revolution in professional mixing: a calibrated listening environment where the monitors truly work in harmony with the room. LSR4300 System with Harman HiQnet™ Network allows centralized control of all system settings using the LSR4300 elegant front panel controls, supplied infrared remote control or computer software.

LSR4326P

The LSR4326P is a bi-amplified system with 6” woofer and 1” silk-dome tweeter.

LSR4328P

The LSR4328P is a bi-amplified system with 8” woofer and 1” silk-dome tweeter.

LSR4312SP

The LSR4312SP is a 450 watt, powered 12” subwoofer with automated RMC* and powerful features for stereo and surround sound production including bass management of the L, C, R, LS, RS channels with adjustable crossover points* plus a dedicated LFE (Low Frequency Effects) inputs.

*When used in a system with LSR4326P or LSR4328P



System calibration is accomplished by simply plugging the LSR4300 calibration microphone into the speaker and pushing a button.

The LSR4300 Series systems can be configured with up to eight main speakers in any desired mix of 6” and 8” models and two subwoofers. The system is automatically aligned so the sound arriving at the mix position from all speakers is balanced even in rooms with space limitations.

specifications

	LSR4326P	LSR4328P	LSR4312SP	LSR4300 Accessory Kit
FREQUENCY RESPONSE	± 1.5 dB: 55 Hz – 20 kHz -3 dB: 47 Hz – 22 kHz -10 dB: 39 Hz – 32 kHz	± 1.5 dB: 50 Hz – 20 kHz -3 dB: 43 Hz – 22 kHz -10 dB: 35 Hz – 32 kHz	27 Hz - 250 Hz (-6 dB) -3dB: 29 Hz -10 dB: 24 Hz	Includes:
AMPLIFIER POWER (LF/HF)	150W/ 70W	150W/ 70W	450W	• LSR4300 Calibration Microphone and mic clip
SPL (CONTINUOUS/PEAK ¹)	106 dB / 112 dB	106 dB / 112 dB	116 dB / 125 dB	• Remote Control
DRIVERS (LF/HF)	6.25" 436H / 1" 431 G; Self-Shielded Neodymium Motor Structures	8" 438H / 1" 431G; Self-Shielded Neodymium Motor Structures	12" 432G; Self-Shielded	• LSR4300 Control Center Software
SENSITIVITY (+4 dBu, -10 dBV)	94 dB/1m	94 dB/1m	94 dB/1m	• USB Cable
INPUTS: ANALOG	XLR, ¼" Balanced, +4 dBu, -10 dBV	XLR, ¼" Balanced, +4 dBu, -10 dBV	XLR, ¼" Balanced, +4 dBu, -10 dBV, LFE +10 dB Gain	
DIGITAL	AES/EBU XLR, S/PDIF RCA	AES/EBU XLR, S/PDIF RCA	AES/EBU XLR IN, OUT; S/PDIF RCA IN, OUT	
DIGITAL PROCESSING	24 Bit, 96 kHz	24 Bit, 96 kHz	24 Bit, 96 kHz	
DATA CONNECTIONS	Harman HiQnet™ Network, USB, RMC Mic	Harman HiQnet Network, USB, RMC Mic	Harman HiQnet Network, USB, RMC Mic	
MAGNETIC SHIELDING	Yes	Yes	Yes	
MOUNTING CAPABILITY	Yes	Yes	No	
FINISH: BAFFLE/ENCLOSURE	Gray Soft Touch/Gray	Gray Soft Touch/Gray	Gray Soft Touch/Gray	
DIMENSIONS (H x W x D)	387 x 236 x 262 mm (15.25 x 9.3 x 10.3 in)	438 x 267 x 269 mm (17.25 x 10.5 x 10.6 in)	501 x 406 x 495 mm (19.75 x 16 x 19.25 in)	
NET WEIGHT (each)	12.7 kg (28 lb)	14.1 kg (31 lb)	29.5 kg (66 lb)	



Included in the LSR4326P/PAK and LSR4328P/PAK

¹ Measured using 6dB crest factor pink noise in free space at 1 Meter C weighted

LSR2300

S E R I E S

- ▶ LINEAR SPATIAL REFERENCE DESIGN FOR SUPERIOR ACCURACY AND IMAGING
- ▶ EXCEPTIONAL LOW FREQUENCY PERFORMANCE

- ▶ HIGH OUTPUT
- ▶ INTEGRATED MOUNTING POINTS
- ▶ OPTIONAL MSC1 MONITOR SYSTEM CONTROLLER WITH RMC™ ROOM MODE CORRECTION



LSR2328P

LSR2325P

LSR2310SP

MSC1

JBL Professional proudly introduces the new LSR2300 Series and The MSC1 Monitor System Controller delivering professional performance at a price within reach of any studio. The LSR2300 models incorporate the same Linear Spatial Reference design that have made the LSR6300 and LSR4300 Series the choice of top professionals and facilities world-wide. To produce an extraordinary monitor system at these price points, our award-winning engineers pushed the limits in every aspect of the design. With the understanding that today's audio mixing and recording is carried out in a broad range of environments, JBL designed a system that delivers perfect mixes in any room.

SONIC ACCURACY



Meeting LSR Linear Spatial Reference criteria produces superior imaging and ensures, what you hear at the mix position is neutral in a broad range of environments. The precision wave guide and crossover design, and a newly developed Elliptical Tweeter Aperture result in superior accuracy and imaging at the mix position.

HIGH OUTPUT

JBL-engineered high-sensitivity transducers, high-output amplifiers and paid careful attention to the thermal properties of the system, allowing each model in the LSR2300 line to produce exceptional sound pressure level (SPL). All three LSR2300 models have survived the JBL torture-test in which each system must play at full rated power for 100 hours before becoming a production-ready design.

highly-acclaimed RMC™ Room Mode Correction that measures and tunes your monitor system for better mixes. MSC1 main "A" speaker outputs include monitor EQ and RMC. The subwoofer output has its own level and crossover controls, and RMC to perfectly blend the sub with the "A" speakers. The very affordable MSC1 works with any speaker system.



EXTENDED LOW FREQUENCY RESPONSE

JBL developed long-excursion low frequency transducers, and custom tuned ports that work in concert to produce deep accurate Low Frequency Response.

MSC1 MONITOR SYSTEM CONTROLLER

The new MSC1 Monitor System Controller is a desk-top unit that allows monitoring of a range of input sources and connection of two sets of speakers and a subwoofer. Since the bulk of today's work is carried out in acoustically less-than perfect rooms, the MSC1 incorporates JBL's



MSC1 Rear Panel

MSC1 Features & Specifications:

- Master Volume Control
- A/B Speaker Select
- A/B/C Input Source Select
- Subwoofer Output with Level Control and Selectable Crossover Frequencies
- Adjustable Low and High Frequency Speaker EQ
- Headphone Output with Volume Control
- Monitor Mute Control
- RMC On/Bypass Control
- Balanced Outputs, Balanced & Unbalanced Inputs
- Included: Calibration Microphone and MSC1 Control Center Software
- Frequency Response: +0/-0.5 dB, 20 Hz - 20 kHz
- S/N, Dynamic Range: 110 dB typical, A-weighted, 20 Hz - 20 kHz
- Dimensions W x D x H: 198 x 165 x 83 mm (7.8 x 6.5 x 3.25 in)

specifications

	LSR2328P	LSR2325P	LSR2310SP
FREQUENCY RESPONSE (±3 dB)	44 Hz - 18 kHz	52 Hz - 18 kHz	31 Hz - 150 Hz (-6dB)
LOW FREQUENCY EXTENSION (-10dB)	37 Hz	43 Hz	29 Hz
AMPLIFIER POWER (LF/HF)	95W / 70W	50W / 35W	180W
MAX SPL CONTINUOUS (EACH / PAIR)	> 103 dB / >109 dB	> 99 dB / >105 dB	> 103 dB
MAX SPL PEAK (EACH/ PAIR)	> 117 dB / >123 dB	>112 dB / >118 dB	>113 dB
DRIVERS (LF/HF)	8" 238G / 1" 231H; Silk Substrate Neodymium	5" 235G / 1" 231H; Silk Substrate Neodymium	10" 230H; Self-Shielded
INPUT SENSITIVITY: XLR, 1/4" -10dBV; RCA -20 dBV	96 dB SPL / 1m	96 dB SPL / 1m	96 dB SPL / 1m (80 Hz cross over)
INPUTS	XLR, 1/4" Balanced, RCA Unbalanced	XLR, 1/4" Balanced, RCA Unbalanced	(L&R) XLR, 1/4" Balanced, RCA Unbalanced
OUTPUTS	N/A	N/A	(L&R) XLR, 1/4" Balanced
USER CONTROLS	Input Level; HF Trim, LF Trim	Input Level; HF Trim, LF Trim	Input Level; Crossover 80 Hz, 120 Hz, External; Polarity
MAGNETIC SHIELDING	Yes	Yes	Yes
MOUNTING CAPABILITY	Yes	Yes	No
FINISH: BAFFLE ENCLOSURE	Metallic Anthracite Paint Matte Black PVC	Metallic Anthracite Paint Matte Black PVC	Metallic Anthracite Paint Matte Black PVC; Black Metal Grille
DIMENSIONS (H x W x D)	395 x 254 x 310 mm 15.5 x 10 x 12.5 in	298 x 187 x 248 mm 11.75 x 7.38 x 9.63 in	415 x 381 x 438 mm 16.12 x 15 x 17.25 in
NET WEIGHT (each)	12.3 kg (27 lb)	6.8 kg (15 lb)	20.2 kg (44.5 lb)

Control® Monitors

key features

- MOLDED ENCLOSURES WITH SHIELDED MAGNETIC STRUCTURES
- HIGH SENSITIVITY AND POWER HANDLING CAPABILITY

CONTROL 2P KEY FEATURES

- INTERNAL 35W/CHANNEL POWER AMP
- BALANCED AND UNBALANCED INPUT CONNECTORS
- WALL MOUNT READY



The JBL Control Series speakers offer well balanced sound and exceptional power handling, making these speakers ideal for any installation requiring professional control monitor performance from a compact source.

CONTROL® 1 PRO

The Control 1 Pro is a high-performance compact loudspeaker system incorporating monitor-grade, magnetically shielded transducers, a professional crossover network and full-range SonicGuard™ overload protection resulting in a loudspeaker system that is perfect for a wide variety of near-field audio applications, audio-visual applications, computer workstations, recording and broadcast studios, mobile audio-video control rooms and foreground and back-ground music. Includes wall-mounting brackets.

CONTROL 5™

The Control 5 is a high-performance, wide range control monitor suitable for use as the primary sound source in a variety of applications. The 165 mm (6 1/2 in) low-frequency driver and 25 mm (1 in) pure titanium dome tweeter are magnetically shielded for use in close proximity to video monitors.

CONTROL 2P

The Control 2P Compact Powered Reference Monitor System combines JBL's legendary loudspeaker design with powerful amplification to deliver rich, accurate performance for the most demanding audio applications. The compact design, rugged enclosure, and professional feature-set make the Control 2P Compact Powered Reference Monitor ideal for desk-top recording and video production, audio visual presentations, professional broadcast applications, and monitoring of electronic musical instruments.

Model C2PS - Control 2P Stereo Pair includes one C2PM powered master, one passive extension speaker, one power supply and two snap-on angle pedestals.

Model C2PM: One Control 2P Powered Master speaker without passive extension speaker.

MTC-2P: Wall mounting kit for Control 2P. Includes two wall mounts, one power supply holder.

specifications

	CONTROL 1 PRO	CONTROL 5		CONTROL 2P
FREQUENCY RESPONSE	100 Hz - 18 kHz (± 3 dB)	75 Hz - 20 kHz (± 3 dB)	FREQUENCY RANGE	80Hz - 20 kHz
POWER CAPACITY ¹	150 W	175 W	MAX. SPL	115 dB (pair); 111 dB (master only)
SENSITIVITY: 1 W, 1 m	87 dB SPL	89 dB SPL	INPUT SENSITIVITY	+4 dBu XLR 1/4 in; 0 dBu RCA
NOMINAL IMPEDANCE	4 ohms	4 ohms	AMPLIFIER POWER	35 Watts continuous per-channel
COMPONENTS: LF	135 mm (5 1/4 in)	165 mm (6 1/2 in)	COMPONENTS: LF/HF	135 mm (5 1/4 in) / 19 mm (3/4 in)
HF	19 mm (3/4 in)	25 mm (1 in)	ENCLOSURE	Polypropylene structural foam
ENCLOSURE	Polypropylene structural foam	Polypropylene structural foam	INPUT CONNECTORS	Balanced Neutrik®*; Combo XLR / 1/4" TRS; Unbal. RCA
FINISH	Black (C1Pro) or white (C1Pro-WH)	Black or white (-WH)	POWER REQUIREMENTS	19 VDC / 3.42 Amps (use only supplied power supply)
DIMENSIONS (H x W x D)	235 x 159 x 143 mm	387 x 251 x 229 mm	AC INPUT VOLTAGE	100 - 240 V +/- 10% 50/60 Hz
NET WEIGHT (each)	1.8 kg (4 lb)	15.25 x 9.8 x 9 in	DIMENSIONS (H x W x D)	235 x 159 x 143 mm
		4.5 kg (10 lb)	NET WEIGHT: MASTER	2.6 kg (5.5 lb)
			EXTENSION	2.2 kg (4.5 lb)

¹ IEC filtered random noise (50 Hz - 5 kHz) with a crest factor (peak to average ratio) of 6 dB.

* Neutrik and the names of Neutrik products referenced herein are either trademarks and/or service marks of Neutrik.

Cinema Loudspeaker Systems

Harman Pro Group | 2013

Section:

07



The history of JBL Cinema Speakers is the history of cinema itself. When a company has a legacy nearly eight decades long, there's little doubt that its ear is planted firmly to the ground.

For most of the 20th Century, JBL has been the most trusted name in Cinema sound. In fact, its namesake and founder James B. Lansing began his company building the world's first cinema speakers. That commitment to the core components of cinema speaker design is why, today, JBL Cinema speakers are found in 6 out of 10 movie theaters around the world.

Ever since James B. Lansing developed cinema speakers at the very beginning of talking movies, JBL has consistently set the bar on just how good the movies can sound. That's why the majority of Dolby® equipped cinemas worldwide use JBL loudspeakers. It's also why Lucasfilm engineers chose JBL speakers as the standard with which the first THX® licensed commercial theaters were developed.

Unparalleled in experience, technical leadership and customer support: a few reasons why, today, JBL speakers also grace the stages of the most coveted theatrical venues, such as The Academy of Motion Picture Arts and Sciences Samuel Goldwyn Theater, The Directors Guild of America and The Academy of Television Arts and Sciences.

Academy of Motion Picture Arts and Sciences
Samuel Goldwyn Theater: Hollywood, California

"Academy Award" and "Oscar" image © AMPAS®. THX® Lucasfilm, LTD.

Ultra High Power Large Format ScreenArray®



5742

key features



The 5742 four-way and 5732 three-way Ultra High Power ScreenArray speakers provide extreme power for large format cinemas and are designed as the ideal loudspeaker system to enhance the 3-D visual experience. Both systems feature a 150 watt, 4" titanium diaphragm high frequency driver on JBL's patented Optimized Aperture waveguide.

- ▶ THX® APPROVED
- ▶ ULTRA HIGH POWER FOR LARGE CINEMAS
- ▶ BOTH 3-WAY AND 4-WAY SPEAKERS

5742

The 5742 Quad-Amplified System features true 4 way design with a quad midrange array of four 8" Differential Drive® cone midrange drivers providing 1400 Watts of smooth coverage coupled with a dual 18" low frequency section providing 1600 Watts of high impact power.

5732

The 5732 Tri-Amplified System is ideal for premier cinemas and post production facilities requiring enhanced power and headroom. The 5732 features a powerful 700 watt midrange section with dual 8" Differential Drive transducers. The low frequency section provides 1200 watts of power from dual 15" Vented Gap Cooled low frequency drivers.



5732

specifications

	5742
FREQUENCY RANGE	25 Hz - 20 kHz
FREQUENCY RESPONSE (±3 dB)	30 Hz - 19 kHz
COVERAGE ANGLES	90° horizontal x 20° up 30° down
DIRECTIVITY FACTOR	10.0
DIRECTIVITY INDEX	10
MAXIMUM PEAK OUTPUT	136 dB @ 1 m
CROSSOVER FREQUENCIES:	220 Hz, 550 Hz, 1.3 kHz
SENSITIVITY: 2.83V @ 1 m	115 dB
SYSTEM INPUT POWER RATING	LF:1600 W, MF:1400 W, HF:150 W
DRIVERS: LF	2 x 2242 HPL
MF	4 x 2169H
HF	2452H-SL
SYSTEM ELEMENTS: LF	5749
MF/HF	5742-M/HF
DIMENSIONS (H x W x D)	2763 x 762 x 610 mm 108.8 x 30.0 x 24 in
NET WEIGHT	128.1 kg (282 lb)

	5732
FREQUENCY RANGE	30 Hz - 20 kHz
FREQUENCY RESPONSE (±3 dB)	40 Hz - 19 kHz
COVERAGE ANGLES	90° horizontal x 20° up 30° down
DIRECTIVITY FACTOR	10.0
DIRECTIVITY INDEX	10
MAXIMUM PEAK OUTPUT	128 dB @ 1m
CROSSOVER FREQUENCIES:	250 Hz, 1.3 kHz
SENSITIVITY: 2.83V @ 1 m	115 dB
SYSTEM INPUT POWER RATING	LF:1200 W, MF:700 W, HF:150 W
DRIVERS: LF	2 x 2226 HPL
MF	2 x 2169H
HF	2452H-SL
SYSTEM ELEMENTS: LF	5739
MF/HF	5732-M/HF
DIMENSIONS (H x W x D)	1937 x 762 x 450 mm 76.3 x 30.0 x 17.8 in
NET WEIGHT	86 kg (190 lb)

5742 (Rear View)



5732 (Side View)



ScreenArray® Series

With the advent of digital cinema, today's cinema patron is even more demanding of perfect coverage in every seat of the auditorium, wide dynamic range and extended bandwidth and inaudible levels of distortion. Continuing to provide cinema exhibition venues and post production facilities with unprecedented audio performance and advanced technology, JBL introduced the "Next Generation" of its award winning ScreenArray® digital cinema loudspeakers.

The "Next Generation" ScreenArray 4722/4722N systems feature a new large format 3", neodymium, titanium diaphragm, high-frequency driver for ultra-high performance. The new high-frequency driver is coupled with a new patented high-frequency horn featuring Screen Spreading Compensation™ to correct for high frequency dispersion through perforated screens. Each of the new systems have improved, patented, crossover design and new Optimized Aperture Waveguides.

Since their introduction, JBL ScreenArray systems have become the choice for premium cinemas throughout the world. with significant improvements in performance and design, the new ScreenArray systems will continue to be the most popular cinema loudspeakers throughout the world.

JBL offers two ScreenArray systems to meet the challenges posed by lower cost installations. All systems products provide ultra smooth and accurate sound reproduction in a compact and highly cost effective system. The 3722N Passive system and 3722 Bi-amplified system, the 4722N Passive system and the 4722 Bi-amplified system feature feature the ultra-low distortion ScreenArray high frequency horn with SSC and dual 15" low-frequency sections.

3722/3722N

The 3722 and 3722N provide smooth and accurate reproduction of cinema soundtracks in a compact and very cost effective passive system.

The system is comprised of two parts: the 3722-HF high-frequency pack and the 3739 low-frequency system.

The ScreenArray horn features a patented design that compensates for high frequency spreading caused by perforated screens for greatly improved audience coverage. Together, these elements provide clear, accurate reproduction of the mid/high frequency information. All of these components come pre-assembled to reduce field assembly time thus reducing installation costs.

4722/4722N

The 4722 and 4722N provide smooth and accurate reproduction of cinema soundtracks in a compact and very cost effective system.

The system is comprised of two parts: the 4722-HF high-frequency pack and the 4739 low-frequency system. The 4722N passive system utilizes a sophisticated crossover network. Developed using computer optimization technology, it provides seamless transition resulting in excellent power response and controlled directivity.

specifications

	3722/3722N	4722/4722N	4722 & 4722N
FREQUENCY RANGE	30 Hz - 18 kHz	30 Hz - 20 kHz	
FREQUENCY RESPONSE	40 Hz - 16 kHz	40 Hz - 19 kHz	
COVERAGE ANGLES	90° horizontal, -30°, +20° vertical	90° horizontal, -30°, +20° vertical	
RATED MAXIMUM SPL:	127 dB, @ 1 m 133 dB peak	130 dB, @ 1 m 136 dB peak	
CROSSOVER FREQUENCIES:	1.3 kHz	4722: 630 Hz 4722N: 800 Hz	
SENSITIVITY: 2.83V @ 1 m	104 dB	104 dB	
NOMINAL IMPEDANCE:	3722: 4ohm 3722N/HF: 8 ohm 3722 N/LF: 4 ohm	4722: 4 ohms 4722N: HF 8 ohms 4722N: LF 4 ohms	
DRIVERS: LF	2 x M115-8A	2 x 2035HPL	
HF	2418H-1	2432H	
SYSTEM ELEMENTS: LF	3739	4739	
MF/HF	3722-HF [3722N-HF]	4722-HF [4722N-HF]	
DIMENSIONS (H x W x D)	1265 x 762 x 450 mm 49.8 x 30 x 17.75 in	1289 x 762 x 450 mm 49.9 x 30 x 17.75 in	
NET WEIGHT	62.2 kg (137 lb)	48.6 kg (123 lb)	



key features

- DESIGNED FOR MAXIMUM OUTPUT, OPTIMAL COVERAGE, AND MINIMUM DISTORTION
- THX® APPROVED (4732-T, 3732-T and 3731-T)
- SHIPS FULLY ASSEMBLED
- ULTRA-LOW DISTORTION AND EXTREMELY UNIFORM FREQUENCY RESPONSE
- FLAT-FRONT DESIGN FOR EASY BAFFLEWALL INSTALLATION
- SHALLOW PROFILE FOR MINIMUM DEPTH BEHIND SCREEN (17 3/4")

The ScreenArray Series features true three-way system design enhanced by advanced engineering. JBL Professional's best technical innovations are integrated in a system design that provides superior coverage, maximum power handling, and uniform acoustic power output, along with extremely low distortion.

The 3731, 3732 and 4732 ScreenArray Series systems are available for bi-amplified or tri-amplified operation. The 3730 is bi-amplified or passive switchable.

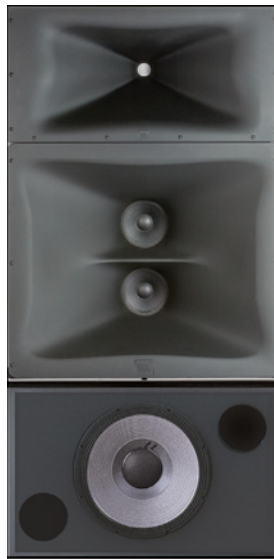
4732 [T]



3732 [T]



3731 [T]



3730



4732T



3732T



3731T



specifications

	4732 [T]	3732 [T]	3731 [T]	3730
FREQUENCY RANGE	30 Hz - 20 kHz	30 Hz - 20 kHz	30 Hz - 20 kHz	30 Hz - 18 kHz
FREQ RESPONSE (± 3 dB)	40 Hz - 19 kHz	40 Hz - 19 kHz	40 Hz - 19 kHz	40 Hz - 18 kHz
COVERAGE ANGLES	90° x 20° up, 30° down	90° x 20° up, 30° down	90° x 20° up, 30° down	90° x 20° up, 30° down
DIRECTIVITY FACTOR (Q)	10.0	10.0	10.0	10.0
DIRECTIVITY INDEX (DI)	10 dB	10 dB	10 dB	10 dB
MAXIMUM PEAK OUTPUT:	130 dB @ 1 m	125 dB @ 1 m	125 dB @ 1 m	120 dB @ 1 m
CROSSOVER FREQUENCIES:	250 Hz [1.2 kHz]	350 Hz [1.2 kHz]	350 Hz [1.2 kHz]	450 Hz [2 kHz]
SENSITIVITY: 2.83V @ 1 m	107 dB	103 dB	103 dB	105 dB
NOMINAL IMPEDANCE:	4 ohms	4 ohms	8 ohms	4 ohms
DRIVERS: LF	2 x 2035HPL	2 x M115H-1	1 x 2226H	2 x M115H-1
MF	4 x 165H	2 x 165H	2 x 165H	1 x 195H
HF	2432H	2432H	2432H	2414H
SYSTEM ELEMENTS: LF	4739	3739 [3732T:4739]	5641	3739
MF/HF	4732-M/HF	3732-M/HF	3732-M/HF	3730-M/HF
DIMENSIONS (H x W x D)	2427 x 762 x 450 mm 95.6 x 30 x 17.75 in	1937 x 762 x 450 mm 76.3 x 30 x 17.75 in	1600 x 762 x 450 mm 63 x 30 x 17.75 in	1734 x 762 x 450 mm 68.25 x 30 x 17.75 in
NET WEIGHT (EACH)	84.4 kg (186 lb)	79.9 kg (172 lb)	51.8 kg (114 lb)	67.1 kg (147 lb)



Academy of Television Arts and Sciences
North Hollywood, California

JBL Standard Cinema Systems



Large Format Three-Way

5674

The 5674 features four JBL 2226H 380 mm (15 in) low-frequency transducers in a unique DiamondQuad™ array. This array orientation allows the four drivers to create maximum output, while minimizing destructive interference effects caused by the use of multiple drivers operating in the same bandpass region.

The 5674 requires tri-amplification and includes one 5644 Quad LF System and one 5674-M/HF System. The 5674 has earned THX Approval and is the same system used in The Academy of Motion Picture Arts and Sciences Samuel Goldwyn Theater and The Directors Guild Theater in Los Angeles. The JBL 5674, truly the world's finest three-way loudspeaker.

Two-Way Systems

3252N

The JBL 3252N Screen Channel system provides smooth and accurate reproduction of cinema soundtracks in a compact and cost effective 400 watt system. The convenient single enclosure, featuring dual 15" low frequency drivers and a Teonex diaphragm high frequency driver, requires no field assembly which simplifies installation.

3677

The 3677 combines classic JBL performance with a natural sound quality for both music and dialog. The ideal small system when minimum depth behind the screen is required. For extraordinary convenience, the all-in-one enclosure requires no field assembly.



3252N



3677

specifications

FREQUENCY RANGE	35 Hz - 16 kHz (-10 dB)
FREQUENCY RESPONSE	45 Hz - 12.5 kHz (± 3 dB)
COVERAGE ANGLES (H x V)	80° x 45° (300 Hz - 16 kHz)
DIRECTIVITY FACTOR (Q)	10.4
DIRECTIVITY INDEX (DI)	11
MAX. PEAK OUTPUT: (LF/MF/HF)	143/140/137 dB @ 1 m
CROSSOVER FREQ.	LF/MF: 297 Hz; MF/HF: 2.5 kHz
SENSITIVITY: 1 W, 1 m	LF: 103; MF: 114; HF: 112 dB
NOMINAL IMPEDANCE: (LF/MF/HF)	4 (per driver pair) / 8/8 ohms
LF DRIVER(S)	4 x 2226H (2 pair in parallel)
MF DRIVER/MF HORN	2490H/2392
HF DRIVER/HF HORN	2451H/2352
SYSTEM ELEMENTS	LF: 5644; MF/HF: 5674-M/HF
DIMENSIONS (H x W x D)	2895.6 x 1118 x 863.6 mm 114 x 44 x 34 in
NET WEIGHT (EACH)	171.69 kg (378.5 lb)

FREQUENCY RANGE	37 Hz - 20 kHz (-10 dB)
FREQUENCY RESPONSE	53 Hz - 18 kHz (± 3 dB)
POWER CAPACITY	400 W ¹
COVERAGE ANGLES (H x V)	100° x 50°
CROSSOVER FREQUENCY	2 kHz
SENSITIVITY: 1 W, 1 m	103 dB SPL
NOMINAL IMPEDANCE	4 ohms
LF DRIVER(S)	2 x 381 mm (15 in)
HF DRIVER	1 x 2414H-C
DIMENSIONS (H x W x D)	1100 x 640 x 450 mm 43.5 x 25.2 x 17.75 in
NET WEIGHT (EACH)	46 kg (101 lb)

FREQUENCY RANGE	40 Hz - 20 kHz (-10 dB)
FREQUENCY RESPONSE	45 Hz - 12 kHz (± 3 dB)
POWER CAPACITY	250 W
COVERAGE ANGLES (H x V)	90° x 40°
CROSSOVER FREQUENCY	1.2 kHz
SENSITIVITY: 1 W, 1 m	99 dB SPL
NOMINAL IMPEDANCE	8 ohms
LF DRIVER(S)	2035H
HF DRIVER	2416-1
DIMENSIONS (H x W x D)	765 x 651 x 292 mm 30.125 x 25.625 x 11.5 in
NET WEIGHT (EACH)	39 kg (85 lb)

¹ IEC filtered random noise (50 Hz - 5kHz) with a crest factor (peak to average ratio) of 6 dB.

Spatially Cued Surrounds

key features

SCS 8

- 250 WATT POWER HANDLING
- 120° x 120° CONSISTENT BROADBAND PATTERN CONTROL
- OVERLOAD PROTECTION

SCS 12

- 400 WATT POWER HANDLING
- EXTRAORDINARY CLARITY SURROUND WITH EXTENDED FREQUENCY RESPONSE
- HIGH POWER PASSIVE CROSSOVER NETWORK



SCS 8



SCS 12

SCS 8

The **SCS 8** is a two-way, full range cinema surround loudspeaker ideal for multi channel surround formats for medium sized auditoriums. The SCS 8 is comprised of a high-power coaxial 203 mm (8 in) low frequency driver and a 25 mm (1 in) high frequency compression driver.

SCS 12

The **SCS 12** is a two-way, full range, high power cinema surround loudspeaker ideal for multi channel surround formats and is designed for overhead installation as well as for the standard on-wall installations. The SCS 12 is comprised of a high power coaxial 305 mm (12 in) low frequency driver and a 25 mm (1 in) high frequency compression driver.

specifications

	SCS 8	SCS 12
FREQUENCY RANGE	70 Hz - 20 kHz (-10 dB)	55 Hz - 20 kHz (-10 dB)
FREQUENCY RESPONSE	90 Hz - 20 kHz (± 3 dB)	70 Hz - 20 kHz (± 3 dB)
POWER CAPACITY ¹	250 W	400 W
COVERAGE PATTERN	120° x 120°	90° x 90°
CROSSOVER FREQUENCY	2.1 kHz	1.8 kHz
SENSITIVITY: 1 W, 1 m	91 dB SPL	94 dB SPL
NOMINAL IMPEDANCE	8 ohms	8 ohms
DRIVER: LF	203 mm (8 in)	305 mm (12 in)
HF	25 mm (1 in)	25 mm (1 in)
DIMENSIONS (H x W x D)	300 x 300 x 305 mm 11.8 x 11.8 x 12 in (enclosure) 359 mm (14.2 in) depth with bracket	402 x 402 x 445 mm 15.8 x 15.8 x 17.5 in (enclosure) 542 mm (21.4 in) depth with bracket
NET WEIGHT (EACH)	9.8 kg (21.5 lb) 11.6 kg (25.5 lb) with U-bracket	15.9 kg (35 lb) 18.9 kg (41.5 lb) with U-bracket

¹ IEC standard, full bandwidth pink noise with a 6 dB crest factor.

Surround Systems

key features

- DESIGNED FOR SMALL, MEDIUM, LARGE AND VERY LARGE VENUES
- SMOOTH, EVEN COVERAGE
- THX® APPROVED



8320

8350

8340A

8320

The **8320** features a 200 mm (8 in) low frequency driver and a 25 mm (1 inch) soft dome driver combined with internal Thermomaster® technology allowing for 150 watts of power. The two-way 8320 reliability and performance position this surround as the ideal low cost, compact choice for today's digital theatre.

8340A

The **8340A** Surround speaker is an unbeatable choice when very high power handling, high sensitivity, extended bass response and a remarkably compact cabinet are the requirements. The two-way 8340A's proven reliability and performance have positioned it as the industry standard for the extended dynamic range required by today's digital sound formats. At 19 pounds, installation is quick and painless.



8350

The **8350** Surround offers very high power handling, high sensitivity, and extended bass response required for the extended dynamic range required by today's digital cinemas. The 8350 features a high power long-throw 250 mm (10 in) low frequency driver and a high frequency 38 mm (1.5 in) coil diameter compression driver.



specifications

	8320	8340A	8350
FREQUENCY RANGE	50 Hz - 20 kHz (-10 dB)	45 Hz - 18 kHz (-10 dB)	60 Hz - 19 kHz (-10 dB)
FREQUENCY RESPONSE	65 Hz - 18 kHz (± 3 dB)	70 Hz - 16 kHz (± 3 dB)	75 Hz - 17 kHz (± 3 dB)
POWER CAPACITY ¹	150 W	250 W	350 W
COVERAGE ANGLES (H x V)	100° x 90°	100° x 80°	100° x 80°
CROSSOVER FREQUENCY:	3 kHz	2.2 kHz	1.4 kHz
SENSITIVITY: 1 W, 1 m	94 dB	96 dB	99 dB
NOMINAL IMPEDANCE	8 ohms	8 ohms	8 ohms
DRIVERS: LF	203 mm (8 in)	254 mm (10 in)	254 mm (10 in)
HF	25 mm (1 in)	25 mm (1 in) exit	25 mm (1 in) exit
DIMENSIONS (H x W x D)	406 x 343 x 224 mm	457 x 457 x 260 mm	457 x 457 x 260 mm
NET WEIGHT (EACH)	5 kg (11 lb)	8.6 kg (19 lb)	9.5 kg (21 lb)

¹ IEC filtered random noise (50 Hz - 5 kHz) with a crest factor (peak to average ratio) of 6 dB.



Mann Grauman's Chinese Theatre; Hollywood, California

key features

- EXCEPTIONAL LOW FREQUENCY AUGMENTATION
- APPROVED FOR THX® INSTALLATIONS

Subwoofers



3635

When a small cinema and an equally small budget are the orders of the day, the JBL 3635 is the perfect choice. It features one 460 mm (18 in) transducer, an unobtrusive shallow enclosure (14½"), true JBL performance and a surprising price.

4181

The JBL 4181 system is a cost effective, 500 watt subwoofer system featuring an advanced technology 460 mm (18 in) low frequency transducer mounted in a direct radiator, bass-reflex enclosure. It's ideal for low frequency augmentation of digital soundtracks.

4641

When a 600 Watt cinema system is what you need, the 4641 is the perfect choice for cost effective, low frequency augmentation. The 4641 features one 460 mm (18 in) JBL 2241 VGC™ (Vented Gap Cooling) low-frequency transducer. The 4641 is THX® approved.

4642A

The 4642A is a dual 460 mm (18 in) subwoofer system featuring two VGC (Vented Gap Cooling) 2241H low-frequency transducers. This high-performance, cost effective 1200 Watt system is ideal for low-frequency augmentation when smooth response down to the lowest audible frequencies is required. An outstanding performer! The 4642A is THX® approved. Also available with grilles.

4645C

Approved by THX®, the 4645C is the industry standard. The 4645C is a single 460 mm (18 in) direct radiator bass reflex subwoofer system featuring the 2242 SVG™ (Super Vented Gap) low-frequency transducer for highest output with lowest distortion. The 4645C is the choice whenever a premium performance single 460 mm (18 in) 800 Watt system is required for low-frequency augmentation.

specifications

	3635	4181	4641	4642A	4645C
FREQUENCY RANGE (-10 dB)	28 Hz - 500 Hz	28 Hz - 500 Hz (no EQ)	25 Hz - 500 Hz	22 Hz - 500 Hz	To 22 Hz (no EQ)
FREQUENCY RESPONSE (± 3 dB)	38 Hz - 100 Hz	40 Hz - 100 Hz (no EQ)	See individual spec sheet	See individual spec sheet	See individual spec sheet
POWER CAPACITY	300 W	500 W	600 W	1200 W	800 W
CROSSOVER FREQUENCY	100 Hz	80 to 150 Hz	80 to 150 Hz	80 to 100 Hz	80 to 100 Hz
SENSITIVITY: 1 W, 1 m	100 dB	99 dB (40 - 100 Hz)	97 dB (40 - 100 Hz)	101 dB SPL	97 dB (40 - 100 Hz)
NOMINAL IMPEDANCE	8 ohms	8 ohms	8 ohms	4 ohms	8 ohms
LF DRIVER(S)	2042H (18 in)	457 mm (18 in)	2241H (18 in)	2 x 2241H (18 in)	2242H (18 in)
DIMENSIONS (H x W x D)	1168 x 651 x 368 mm 46 x 25.625 x 14.5 in	1100 x 640 x 450 mm 43.3 x 25.2 x 17.75 in	990.6 x 647.7 x 450 mm 39 x 25.5 x 17.75 in	762 x 1219 x 610 mm 30 x 48 x 24 in	990.6 x 647.7 x 450 mm 39 x 25.5 x 17.75 in
NET WEIGHT (EACH)	51 kg (113 lb)	50 kg (109 lb)	60 kg (131 lb)	98 kg (216 lb)	63 kg (138 lb)

Cone Transducers & Compression Drivers



Manufacturing our own component transducers has historically set JBL apart from most other loudspeaker system manufacturers, and some of our numerous component transducers are available as sales models. All low-frequency units and compression drivers have been pre-qualified during the design phase with JBL's rigorous 100-hour 'torture test'. Units shown are legendary workhorses, often purchased in quantity for use in custom system designs.



VGC™ SERIES CONE TRANSDUCERS MODELS: 2206H, 2226H/J, 2241H

These low-frequency transducers incorporate JBL's patented Vented Gap Cooling technology in an improved Symmetrical Field Geometry (SFG) magnet structure. JBL engineers optimized both magnet weight, flux density and field saturation resulting in a reduction of overall driver weight and a significant reduction in harmonic distortion.

SVG™ SERIES CONE TRANSDUCERS Low-frequency Maximum Output Transducers MODEL: 2242H

The 2242H low-frequency transducer incorporates JBL's patented Super Vented Gap™ technology for improvement in power handling capability while minimizing power compression.

25 mm - 1" EXIT COMPRESSION DRIVER (44 mm - 1 3/4" Diaphragm)

The **JBL 2426H/J** incorporates JBL's titanium diamond diaphragm for ruggedness and outstanding frequency response.

38 mm - 1 1/2" EXIT COMPRESSION DRIVER (100 mm - 4" Diaphragm)

The 38 mm exit on the **2451H/J** compression driver allows the Coherent Wave™ phasing plug to directly couple with Optimized Aperture™ Bi-Radial* horns for lower distortion and better coverage control. The large format 100 mm (4 in) diaphragm design includes JBL's exclusive three dimensional diamond pattern which increases the driver's output in the 5 kHz to 20 kHz range when combined with the Coherent Wave phasing plug.

49 mm - 2" EXIT COMPRESSION DRIVER (100 mm - 4" Diaphragm)

The **2450H/J** uses the optimized configuration of the Coherent Wave phasing plug design, offering coherent summation of acoustical power up to much higher frequencies than previous designs.

It also incorporates a neodymium rare-earth magnet assembly that provides the equivalent electromechanical conversion efficiency at two-thirds the size and one-third the weight required by previous large format compression driver designs.

Note: H version is 8 ohms impedance and J version is 16 ohms impedance.



2242H

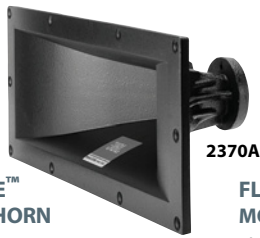
¹ AES standard (50 - 500 Hz)
² Based on a swept 100 to 500 Hz signal.
1 W is 2.83 V @ 8 ohms, 4.0V @ 16 ohms.
³ Based on standard IEC 268-1
⁴ Based on a swept 500 Hz to 2.5 kHz signal.

	2206H	2226H/J	2241H	2242H
NOMINAL DIAMETER	300 mm (12 in)	380 mm (15 in)	460 mm (18 in)	460 mm (18 in)
RATED IMPEDANCE	8 ohms	8 ohms (H); 16 ohms (J)	8 ohms	8 ohms
POWER CAPACITY	600 W ¹	600 W ¹	600 W ¹	800 W ¹
SENSITIVITY: 1 W, 1 m	95 dB SPL ²	97 dB SPL ²	98 dB SPL ²	99 dB SPL ²
FREQUENCY RANGE (-10 dB)	45 Hz - 3.5 kHz	30 Hz - 2.5 kHz	30 Hz - 3 kHz	25 Hz - 1.6 kHz
HIGHEST CROSSOVER	1500 Hz	1200 Hz	800 Hz	1.0 kHz
VOICE COIL DIAMETER	102 mm (4 in)	102 mm (4 in)	102 mm (4 in)	102 mm (4 in)
VOICE COIL MATERIAL	Edgewound aluminum ribbon	Edgewound aluminum ribbon	Edgewound aluminum ribbon	Edgewound aluminum ribbon
HALF SPACE REFERENCE EFFICIENCY	2.5%	3.3%	2.9%	4%
NET WEIGHT (each)	7.8 kg (17.1 lb)	8.7 kg (19.25 lb)	10.7 kg (23.5 lb)	13.2 kg (29 lb)

	2426H/J	2451H/J	2450H/J
NOMINAL IMPEDANCE	8 ohms (H) 16 ohms (J)	8 ohms (H) 16 ohms (J)	8 ohms (H) 16 ohms (J)
POWER CAPACITY ¹	70 W above 800 Hz 100 W above 1.2 kHz	100 W above 500 Hz 150 W above 1 kHz	100 W above 500 Hz 150 W above 1 kHz
SENSITIVITY, 1 W, 1 m (Averaged)	110 dB ² (1 kHz - 4 kHz)	111 dB ² (500 Hz - 2.5 kHz)	111 dB ² (2 kHz octave band)
FREQUENCY RANGE (-10 dB)	500 Hz - 20 kHz	500 Hz - 20 kHz	500 Hz - 20 kHz
RECOMMENDED CROSSOVER	800 Hz or higher	500 Hz or higher	500 Hz or higher
DIAPHRAGM: SIZE	44 mm (1 3/4 in)	102 mm (4 in)	102 mm (4 in)
MATERIAL	Pure titanium	Pure titanium	Pure titanium
VOICE COIL MATERIAL	Aluminum ribbon	Aluminum ribbon	Aluminum ribbon
FLUX DENSITY	1.8 T (18,000 gauss)	1.9 T (19,000 gauss)	1.9 T (19,000 gauss)
DIMENSIONS: DIAMETER	149 mm (5.875 in)	167 mm (6.6 in)	167 mm (6.6 in)
DEPTH	104 mm (4.125 in)	76 mm (3 in)	139 mm (5.5 in)
NET WEIGHT (each)	4.3 kg (9.5 lb)	4.5 kg (10 lb)	4.8 kg (10.5 lb)

¹ Continuous program power is defined as 3 dB greater than continuous pink noise and is a conservative expression of the transducer's ability to handle typical speech and music program material.
² Sensitivity measured on a horn with a Q of 6.3.

Horns



**OPTIMIZED APERTURE™
MID-SIZE BI-RADIAL® HORN**
MODEL: 2352

The Optimized Aperture Mid-Size Bi-Radial Horn are designed to provide high sound pressure level at low distortion over the bandwidth of 630 Hz to beyond 18 kHz with very uniform horizontal and vertical coverage from an optimum size horn. Extensive modeling was used to optimize the coverage pattern, reducing both distortion and size.

Constant horizontal and vertical coverage patterns provide easily predictable performance at any frequency or orientation. Cluster design is simplified and typical problems such as lobing and size are greatly reduced.



2382A

FLAT-FRONT BI-RADIAL® HORNS
MODELS: 2370A, 2380A, 2382A, 2385A

The Flat-Front Bi-Radial Horns are designed for flush cabinet mounting or compact cluster applications. The horns provide uniform on and off axis frequency response at the rated frequencies.

The horn's small vertical mouth dimension (just slightly larger than the compression driver used to drive the horn) allows very compact single and multiple horn/driver systems to be put together. Should vertical pattern control be required below 2 kHz, two or more horns may be stacked vertically to restore full Bi-Radial™ performance.



2509A

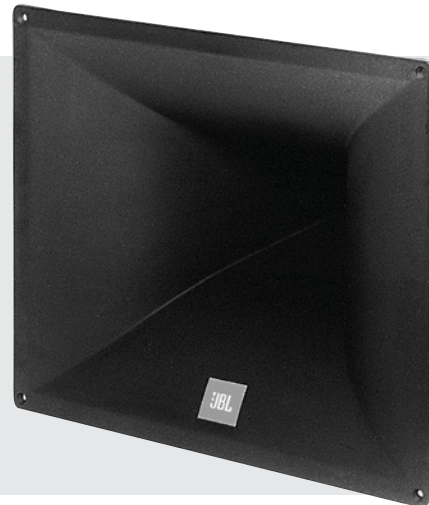
**HORN/DRIVER
MOUNTING SYSTEM**
MODELS: 2509A

The 2509 Professional Mounting Bracket is designed to facilitate easy installations and quick adjustability in a variety of applications. It is manufactured of rugged 1/8" steel and finished in black matte. The 2509 Professional Mounting Bracket is not intended for suspension applications.

The 2509A is a two piece system that allows aiming and rotation in three planes—vertical, horizontal and rotation around axis. The width of the mounting slots and an included adaptor gasket allow use with the 2350 Series and the 2380 Series.

specifications

2352	
THROAT SIZE	38 mm (1 1/2 in)
ACCEPTS JBL DRIVERS	2447H/J, 2451H/J
NOMINAL DISPERSION	90° H x 40° V
DIRECTIVITY FACTOR (Q) (Averaged)	13 (630 Hz - 20 kHz)
DIRECTIVITY INDEX (DI) (Averaged)	11 (630 Hz - 20 kHz)
USABLE LOW FREQ. LIMIT	500 Hz
MIN. RECOMMENDED CROSSOVER	500 Hz @ 18 dB/oct min.
AXIAL PRESSURE SENSITIVITY ¹	112 dB
CONSTRUCTION	Fiberglass reinforced plastic
MOUTH: HEIGHT	457 mm (18 in)
WIDTH	559 mm (22 in)
LENGTH	254 mm (10 in)
NET WEIGHT (each)	2.2 kg (6 lb)



**OPTIMIZED APERTURE™
MID-SIZE BI-RADIAL® HORN**
MODEL 2352

	2370A	2380A	2382A	2385A
THROAT SIZE	25 mm (1 in)	49 mm (2 in)	49 mm (2 in)	49 mm (2 in)
ACCEPTS JBL DRIVERS	2426H/J	2446H/J, 2450H/J, 2485J	2446H/J, 2450H/J, 2485J	2446H/J, 2450H/J, 2485J
NOMINAL DISPERSION	90° H x 40° V	90° H x 40° V	120° H x 40° V	60° H x 40° V
DIRECTIVITY FACTOR (Q) (Averaged)	12.2 (1 kHz - 16 kHz)	10.7 (1 kHz - 16 kHz)	9 (630 Hz - 20 kHz)	19 (1 kHz - 16 kHz)
DIRECTIVITY INDEX (DI) (Averaged)	10.9 (1 kHz - 16 kHz)	10.3 (1 kHz - 16 kHz)	7.9 (500 Hz - 16 kHz)	12.8 (1 kHz - 16 kHz)
USABLE LOW FREQ. LIMIT	500 Hz	400 Hz	400 Hz	400 Hz
MIN. RECOM. CROSSOVER	630 Hz	500 Hz	500 Hz	500 Hz
AXIAL PRESSURE SENSITIVITY ¹	110 dB	112 dB	110 dB	114 dB
CONSTRUCTION	High density solid polyurethane	Molded structural foam	Molded structural foam	Molded structural foam
MOUTH: HEIGHT	173 mm (6.81 in)	279 mm (11 in)	279 mm (11 in)	279 mm (11 in)
WIDTH	445 mm (17.5 in)	445 mm (17.5 in)	445 mm (17.5 in)	445 mm (17.5 in)
LENGTH	174 mm (6.84 in)	236 mm (9.28 in)	236 mm (9.28 in)	236 mm (9.28 in)
NET WEIGHT (each)	1.4 kg (3 lb)	2.2 kg (6 lb)	1.62 kg (3.5 lb)	2.2 kg (6 lb)

¹ Measured on axis in the far field with 1 watt input and referred to 1 meter distance calculated by inverse square law. Listed sound pressure level represents an average from 1 kHz to 4 kHz.



SELENIUM

by HARMAN





PROFESSIONAL

LINE

SUBWOOFERS

MIDBASS

WOOFERS

COMPRESSION DRIVERS

HORNS

SUPER TWEETERS



SUBWOOFER LINE



18SWS1000



COOLING
SYSTEM
DETAIL

SUSPENSION
DETAIL

FEATURES

- Recommended for use as a subwoofer in a bass reflex or horn loaded cabinets.
- Capabilities: High power handling, Large linear excursion.
- Bandpass extension into the very low frequency zone.
- High power output with low distortion.
- Magnetic assembly was designed with Finite Element Analysis (FEA) for precise utilization and distribution of the magnetic field.
- Double poly-cotton spider for precise centering and increased linear displacement of the cone & coil.
- 4" diameter spun laced fiberglass former withstands high temperatures and is mechanically strong.
- Cone is reinforced with non pressed synthetic fibers that greatly improve mechanical stability during large excursions.
- Fabric surround treated with rubberized materials for greater durability, better damping, and reduced standing waves.
- Exclusive MCS™ - Multi Cooling System for high SPL with less power compression.
- Die-cast Aluminum frame is durable and made to perform.
- High strength structural adhesives combined with materials that have good thermal resistance increase durability and reliability.

MODEL	15SWS1100	15SWS1000	15SWS800	18SWS1100	18SWS1000	18SWS800
Diameter	15"	15"	15"	18"	18"	18"
Impedance (Ω)	8	8	8	8	8	8
RMS (W)	1,100	1,000	800	1,100	1,000	800
Musical Program (W)	2,200	2,000	1,600	2,200	2,000	1,600
SPL 1W @ 1m (dB)	95	95	93	97	96	95
Frequency Resp. @ -10dB (Hz)	35 to 3,500	38 to 2,000	35 to 1,500	30 to 3,000	37 to 2,000	30 to 1,500
Resonance (Hz)	37	36	37	34	37	32
Voice Coil diameter in. (mm)	4 (100)	4 (100)	4 (100)	4 (100)	(4) 100	(4) 100
Voice Coil	Edge wound Al	4 Layer Al	4 Layer Cu	Edge wound Al	4 Layer Al	4 Layer Cu
Magnet Weight oz. (g)	120 (3,400)					
Basket	Die cast aluminum with epoxy finish					

MIDBASS LINE



MB

- For midbass boxes that require high power handling, efficiency, high fidelity, and low distortion.
- Extremely versatile these speakers can be used in two-way, three-way and line array systems.
- Magnet structure was designed with Finite Element Software (FEA) so that the magnetic field was optimized and evenly distributed. The 12" model has a copper shorted turn on the pole piece to lower distortion and extended the upper frequency response.
- Specially treated paper cone is reinforced with special fibers making it lighter, stronger and better sounding in the midbass.
- Edge treated surrounds are either accordion or m-roll style to increase linearity during large excursions. Added advantages include the reduction of standing waves and improved acoustic coupling.
- Efficient venting cools the voice coil which reduces power compression, increases reliability and raises maximum SPL.
- Low profile die cast aluminum frame is easier to install in smaller, shallower and horn loaded enclosures.
- High temperature structural adhesives form a material bond with high shear strength greatly improving the durability and reliability of the product.

W4P

- Recommended for use in systems that require flat frequency response with extended range from the midbass to the upper midrange.
- An excellent choice when small unobtrusive speakers are called for in houses of worship, hotels, schools, clubs, restaurants and retail localizations.
- Durable copper voice coil on Kapton® is large enough to handle a lot of power but light enough for extended frequency response.
- Special resins are used to treat the long fiber paper cone increasing strength and improving sound quality.
- Cloth (8") and foam (6") half roll surrounds are treated to improve stability during high excursions, increase acoustic coupling and help dampen standing waves.
- Stamped steel epoxy coated frame is resistant to oxidation and won't bend even under harsh conditions.



MODEL	8MB4P	10MB3P	12MB3P	6W4P	8W4P
Diameter	8"	10"	12"	6"	8"
Impedance (Ω)	8	8	8	8	8
RMS (W)	250	300	500	100	150
Musical Program (W)	500	600	1,000	200	300
SPL 1W @ 1m (dB)	97	100	101	91	96
Frequency Resp. @ -10dB (Hz)	80 to 5,000	150 to 12,000	90 to 4,000	80 to 9,000	100 to 6,500
Resonance (Hz)	105	80	61	76	107
Voice Coil Diameter in.(mm)	1.8 (47)	3 (75)	2.4 (61)	1.3 (32)	1.8 (47)
Voice Coil	Kapton®/Aluminum			Kapton®/Copper	
Magnet weight oz.(g)	45 (1,280)	91 (2,570)	93 (2,640)	20 (560)	44 (1,240)
Frame Material	Die cast aluminum with epoxy finish			Stamped steel epoxy finish	

Kapton® - Trademark Du Pont

WOOFER

LINE

WS 600



15WS600

- Recommended for smaller low frequency cabinets where high power handling, seamless linearity and low distortion sound is required.
- Ideal for touring and fixed installations. Recommended for use in sidefill and stage monitor speakers.
- Magnet assembly design optimized by finite element software (FEA) to improve the control of the flux in the gap.
- Double spiders control the alignment of the cone during high excursions.
- 4" diameter Copper voice coil on a high temperature Kapton® former for increased power handling and structural durability.
- Composite cellulose cone that is reinforced with long synthetic fibers improves mechanical stiffness, damping, and reduces standing waves.
- Efficient vented cooling system reduces power compression and improves efficiency.
- High temperature structural adhesives permanently bonds components increasing durability and reliability.



18WS600



12WS600



MODEL	12WS600	15WS600	18WS600
Diameter	12"	15"	18"
Impedance (Ω)	8	8	8
RMS (W)	600	600	600
Musical Program (W)	1,200	1,200	1,200
SPL 1W @ 1m (dB)	95	97	98
Frequency Resp. @ -10dB (Hz)	45 to 3,000	40 to 3,500	35 to 3,000
Resonance (Hz)	46	35	33
Voice Coil Diameter in. (mm)	4 (100)	4 (100)	4 (100)
Magnet Weight oz. (g)	94 (2,700)	94 (2,700)	94 (2,700)
Frame Material	Die cast aluminum with epoxy finish		

Kapton® - Trademark Du Pont



15PW6

PW

- Recommended for use in small and medium-size venues where high performance reproduction of the critical midrange frequencies are desired.
- The right choice for two way loudspeakers that are used for sound reinforcement in auditoriums, ballrooms, nightclubs, and live music stages.
- Precision wound copper voice coil is bonded to a Kapton® former and coated so that it holds it's structural shape under high power conditions.
- Paper cone reinforced with long fibers is specially treated to ensure faithful reproduction and tone in the voice band.
- Accordion edge fabric surround is specially treated to reduce fatigue and lower distortion.
- Aluminum dust cap dissipates heat from the voice coil improving power handling and reducing power compression. No aluminum dust cap on (8PW7, 10PW7, 12PW7, and 15PW7).
- Mechanically strong and weather resistant epoxy coated stamped steel frame.



8PW7



15PW7



MODEL	8PW7	10PW7	12PW7	15PW7	15PW6
Diameter	8"	10"	12"	15"	15"
Impedance (Ω)	8	8	8	8	8
RMS (W)	140	150	250	300	400
Musical Program (W)	300	300	500	600	800
SPL 1W @ 1m (dB)	93	95	95	97	97
Frequency Resp. @ -10dB (Hz)	70 to 8,000	60 to 4,000	40 to 4,500	40 to 4,500	60 to 4,000
Resonance (Hz)	79	67	42	43	37
Voice coil Diameter in.(mm)	1.3 (32)	1.8 (46)	2.4 (60)	2.4 (60)	3 (75)
Magnet Weight oz. (g)	20 (560)	32 (920)	46 (1300)	46 (1300)	86 (2,440)
Frame Material	Stamped steel with epoxy finish				

Kapton® - Trademark Du Pont

COMPRESSION DRIVER LINE



D305

PHENOLIC

- Recommended for midrange applications in multi-way PA's, stage monitors, side fills and high SPL car audio systems.
- High sensitivity, low distortion and smooth response.
- Precisely formed phenolic diaphragm produces high fidelity sound through out the midrange.
- Diaphragm voice coil is bonded to Kapton™ with high temperature adhesives to increase durability and raise power handling.
- "Phase Plug" is an acoustic transformer with optimized geometry to reduce phase cancellations.
- Magnetic Fluid in the gap (models D305 and D405) helps center the coil, improves heat dissipation, and reduces distortion.
- Quick change drop in diaphragm for easy repair.



D250-X



D405



D200

MODEL	D200	D250-X	D305	D405
Throat diameter	1"		2"	
impedance (Ω)	8			
RMS (W)	50 ⁽¹⁾	100 ⁽²⁾	75 ⁽²⁾	100 ⁽²⁾
Musical Program (W)	100	200	150	200
SPL 1W @ 1m (dB)	107	107	110	110
Frequency Resp. @ -10dB (Hz)	500 to 7.000	400 to 9.000	400 to 9.000	300 to 7.000
Rec. a 12 dB/8 ^a (Hz)	500	500	500	
Voice coil diameter in(mm)	51	51	75	100
Magnet weight oz.(g)	290	332	1.600	2.640
Housing material	Plastic	Aluminum	Plastic	
Horn connection	Screw on		Bolt on	

(1)Xover 1.200Hz 12dB/oct (2)Xover 2.000Hz 12dB/oct

COMPRESSION DRIVER LINE



D202Ti



D220Ti

TITANIUM

- Recommended for use in high performance compact, two-way, multi-way and line array systems.
- For use in sound reinforcement, side fill and stage monitor loudspeakers.
- World class drivers with excellent performance.
- High sensitivity and linear frequency response.
- Pure TITANIUM Diaphragm is accurately shaped to produce high frequencies with clarity.
- Innovative IPF® - Impregnated Polymer Fiber (models D3300Ti, D3305Ti) diaphragm surround reduces ringing and makes the high frequencies more linear.
- DPD® - Driver Protection Device protection circuit (models D3300Ti, D3305Ti), protects the compression driver by reducing the input power during clipping and overload conditions.
- Precisely designed "Phase Plug" is an acoustic transformer that helps prevent phase cancellations.
- Copper shorting ring on the pole piece reduces the modulation of the magnetic field, lowers distortion and increases high frequency output.
- Magnetic Fluid in the gap (models D408Ti, D3300Ti, and D3305Ti) lowers distortion, helps to center the voice coil and wicks away heat.
- Repair of the driver is easy because the quick change diaphragm indexes to center and has a unique gold-plated contact system (models D3300Ti and D3305Ti).



D3305Ti



D408Ti

MODEL	D202Ti	D220Ti	D220Ti OMF	D3305Ti DPD	D408Ti
Throat diameter	1"			2"	
Impedance (Ω)	8				
RMS (W)	60 ¹	80 ¹		75 ²	125 ³
Musical Program (W)	120	160		150	250
SPL 1W @ 1m (dB)	106	109		108	111
Frequency Resp. @ -10dB (Hz)	1,000 to 20,000	1,000 to 21,000		500 to 20,000	400 to 20,000
Rec. X-over, 12dB/oct min. (Hz)	1,500			800	
Voice coil diameter in (mm)	1.7 (44)			3(75)	4 (100)
Voice coil	Kapton®/CCAW			Kapton®/CCAW edgewound	
Magnet Weight oz.(g)	8 (210)	24 (675)		57(1,600)	93 (2,640)
Housing material	Plastic				
Horn connection	Screw on	Screw on	Bolt on		

(1) Xover 2,000Hz 12dB/oct (2) Xover 800Hz 12dB/oct (3) Xover 1,200Hz 12dB/oct

Kapton® - Trademark Du Pont

NEODYMIUM / TITANIUM



D2500Ti-Nd



Heat sink cover detail

NEODYMIUM / TITANIUM

- High performance drivers recommended for use in stage wedges, side fills, high output compact systems, multi-way PA's and line arrays.
- World class NEO driver, excellent performance.
- High sensitivity, extended top end output and linear frequency response.
- Neodymium magnet and the low carbon steel return structure optimally designed using finite element software (FEA). The rare-earth "NEO" magnet generates high force levels (BL) so the size and weight of the driver can be greatly reduced.
- Copper shorted turn on the pole piece reduces the modulation of the magnetic field and lowers the inductance of the voice coil improving the high frequency output.
- Pure titanium diaphragm is accurately formed with a sophisticated surface pattern that greatly improves the high frequency sound qualities.
- Optimized geometry of the "Phase Plug" acoustically loads the diaphragm, reduces resonances and improves phase response.
- Aluminum rear cover has heat sink fins to increase thermal dissipation.



MODEL	D2500Ti-Nd
Throat diameter	1"
Impedance (Ω)	8 and 16
RMS (W)	80 ⁽¹⁾
Musical Program (W)	160
SPL 1W @ 1m (dB)	111
Frequency Resp. @ -10dB (Hz)	1,000 to 22,000
Min. X-over Freq. 12dB/oct. (Hz)	1,500
Voice Coil Diameter in. (mm)	1.7 (44)
Voice Coil	Kapton®/CCAW
Magnet weight oz. (g)	4 (115)
Housing material	Aluminum
Horn connection	Screw on

(1) Xover 2,000Hz 12dB/oct (2) Xover 800Hz 12dB/oct

Kapton® - Trademark Du Pont

TWEETER/ HORN DRIVER



DT150

DRIVER TWEETER

- Recommended for use in the upper midband and higher in systems that require extended frequency response. A good choice for use in compact multi-purpose speakers.
- Compact device with reliable performance and high efficiency.
- 1" (25mm) convex dome phenolic diaphragm.
- CCAW - copper clad aluminum - Voice coil.
- 60° H x 60° V coverage angle with included HM11-25 screw on horn.
- Repair is simple and easy.

MODEL	DT150
Throat diameter	1"
Impedance (Ω)	8
RMS (W)	75 ¹
Musical Program (W)	150
SPL 1W @ 1m (dB)	108
Frequency Resp. @ -10dB (Hz)	1,500 to 15,000
Min. X-over Freq. 12dB/oct. (Hz)	4,000
Voice coil Diameter in. (mm)	1" (25)
Magnet weight oz. (g)	10 (290)
Housing material	Plastic
Horn connection	Screw on

1)Xover 4,000Hz 12dB/oct

LONG THROW

HORN LINE



HL 14-25



HL 4750-SLF

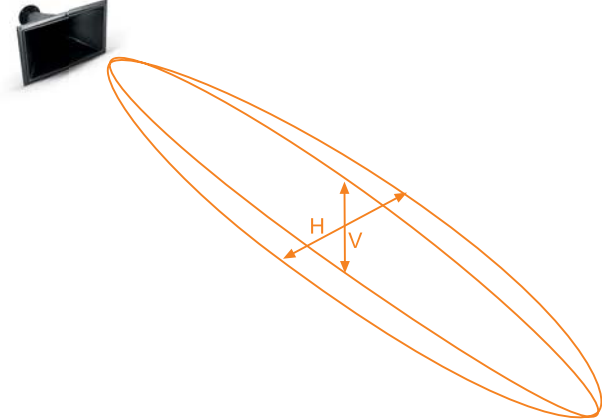


HL 14-50N

FEATURES

- Ideal for sound reproduction in small, medium and large-size environments.
- Several models available with different sound dispersion designed to fit almost any application.
- Optimized to increase directivity which raises max SPL, and to improve loading of the driver which magnifies efficiency.
- Designed to couple with Selenium drivers to produce high clarity sounds.

Sound dispersion



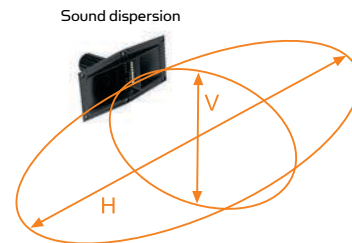
MODEL	HL 14-25	HL 14-50N	HL 4750-SLF
Throat	1"	2"	2"
Material	Plastic	Aluminum	Fiberglass
Sound Dispersion HxV	45° x 45°	45° x 45°	40° x 20°
Low Frequency Limit. (Hz)	600	600	400
Driver Connection	Screw on	Bolt on	Bolt on
Width in. (mm)	6.1 (156)	6.1 (176)	17.5 (445)
Height in. (mm)	6.1 (156)	6.1 (165)	11 (280)
Length in (mm)	10.1 (258)	5.1 (134)	13.8 (352)

MEDIUM THROW



MODEL	HM11-25	HM17-25	HM25-25	HM3950-SLF	HM4750-SLF
Throat	1"	1"	1"	2"	2"
Material	Plastic	Plastic	Aluminum	Fiberglass	
Sound Dispersion HxV	60° x 60°	60° x 40°	90° x 60°	60° x 30°	90° x 40°
Low Frequency Limit (Hz)	1,200	1,500	1,200	400	400
Driver Connection	Screw on	Screw on	Screw on	Bolt on	Bolt on
Width in. (mm)	4.5 (115)	6.3 (160)	10.8 (274)	15.3 (390)	17.5 (445)
Height in. (mm)	4.5 (115)	5.7 (145)	6.5 (164)	8.1 (206)	11.4 (290)
Length in. (mm)	3 (75)	4.1 (103)	5.9 (151)	9.2 (234)	8.3 (210)

SHORT THROW



MODEL	HC23-25
Throat	1"
Material	Plastic
Sound Dispersion H x V	100° x 40°
Low Frequency Limit. (Hz)	600
Driver Connection	Screw on
Width in. (mm)	10 (254)
Height in. (mm)	5 (128)
Length in. (mm)	5.7 (145)



ST350

SUPER TWEETER

LINE

FEATURES

- Ideal super tweeter when the reproduction of high frequencies must define the instruments.
- Recommended for PA systems, stage monitors and most sound reinforcement systems in general.
- Extremely high sensitivity and lower distortion.
- The geometry of the magnetic circuit was optimized with Finite Element Analysis (FEA) in order to efficiently utilize and distribute the magnetic field in the gap.
- The Phenolic diaphragms ability to hold it's shape is key to the production of high fidelity, high frequency sound.
- Durability of the super tweeter is increased by using a high temperature voice coil that's bonded to a Kapton® former.
- Components are bonded with high temperature structural adhesives to increase durability and improve reliability.
- Easy diaphragm replacement for faster repairs.

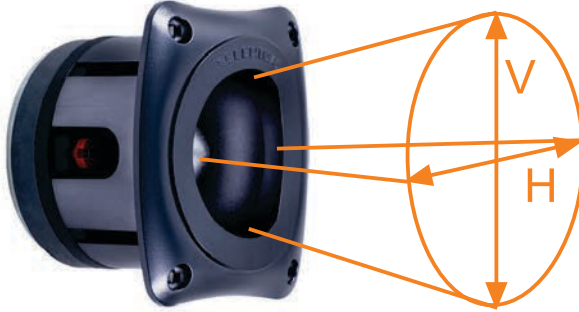


ST304



ST400BLK

SOUND DISPERSION



MODEL	ST200	ST304	ST350	ST400 BLK
Impedance (Ω)	8	8	8	8
RMS (W)	70 ⁽¹⁾	40 ⁽²⁾	100 ⁽²⁾	150 ⁽²⁾
Musical Program (W)	140	80	100 ⁽²⁾	150 ⁽²⁾
SPL 1W @ 1m (dB)	105	106	111	111
Frequency Resp. @ -10dB (Hz)	2,000 to 20,000	3,500 to 18,000	2,500 to 20,000	3,000 to 20,000
Voice Coil Diameter	1.8 (46)			1.7 (42)
Sound Dispersion HxV	40° x 40°		120° x 40°	40° x 40°
Magnet weight	8 (220)	11 (320)	17 (470)	15 (430)
Diaphragm	Phenolic			
Housing material	Plastic			

(1) Xover 5,000Hz 12dB/oct (2) Xover 8,000Hz 12dB/oct



CSM-32 & CSM-21

CS SERIES PUBLIC ADDRESS MIXERS



Sophisticated digital processing made accessible through a simple analog-style control interface

The CS Series CSM Public Address Mixers do not require a computer for configuration and make sophisticated digital processing available through simple controls on the devices themselves.

EQUALIZATION

Bass and Treble controls are available for the paging microphone and each Zone Output. These controls allow the sound of the microphone to be tailored independently from the sound in each of the zones. This helps ensure crystal clear intelligibility of paging announcements, without impacting the fidelity of the music in the output zones.

AUTOWARMTH™

AutoWarmth helps maintain musical warmth at all operating levels by automatically adjusting the tonal balance within a zone based upon the zone output level. This helps prevent music from sounding thin at lower levels or excessively resonant at higher levels.

LEVELGUARD™

LevelGuard helps maintain optimum levels through the system by automatically applying the correct amount of compression to the source signals based upon the incoming level. Even with source material of different levels, customers experience consistency from the system.

SOURCE PRIORITY

There are cases where it is desirable for particular sources to have priority over other sources. Examples of such sources are jukeboxes, message repeaters or live DJ. After some simple configuration on the CSM, the sources will play into the zones as specified until a signal is present on the priority source. The CSM device will automatically fade over to the priority source until a signal is no longer present on the priority source.

This means that, for an application with a background music source and a jukebox, no switching from the background music source is required as customers put money in the jukebox. The CSM device automatically fades over to the jukebox immediately as the song starts to play. After the jukebox playlist has finished, the CSM device automatically fades back over to the background music source.

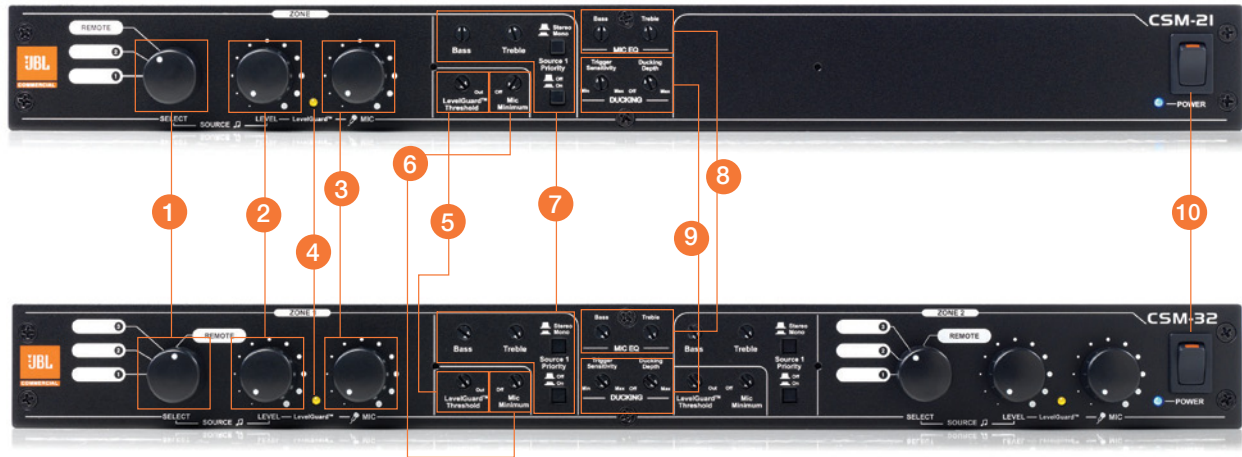
SECURITY PANEL

Once everything is set up exactly the way you like it, the included security plate can be placed over the controls in the center of the CSM device to avoid uninvited changes. This means that the system will consistently deliver the same high performance as the day it was commissioned.



Enhance your business music system and transform your customer's experience...

CSM-21 FRONT



CSM-32 FRONT

1) SOURCE

SELECT CONTROL

Allows selection among sources within a zone or assignment of source selection to a remote wall controller with source selection capability

2) VOLUME

LEVEL CONTROL

Allows control of volume level within a zone or volume level limiting, when used in conjunction with a remote wall controller with volume level capability

3) MIC LEVEL CONTROL

Allows control of microphone level within a zone

4) LEVELGUARD™ LED

Indicates the application of LevelGuard™ on a source

5) LEVELGUARD™

THRESHOLD CONTROL

Allows adjustment of how much LevelGuard™ is applied to sources

6) MIC MINIMUM

Allows a minimum microphone level to be configured within a zone to avoid paging messages being turned down completely

7) ZONE CONTROLS

BASS and **TREBLE** controls allow adjustment of tonal balance to meet the requirements of a physical space

STEREO/MONO switch allows zone to be run in stereo or mono

SOURCE 1 PRIORITY switch enables/disables the priority of Source 1

8) MIC CONTROLS

BASS and **TREBLE** controls allow adjustment of microphone tonal balance

9) DUCKING CONTROLS

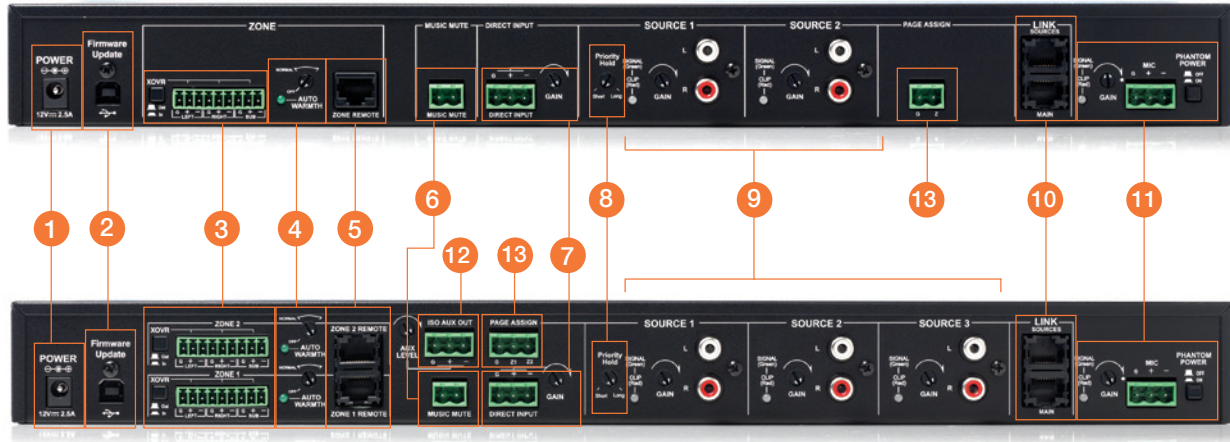
TRIGGER SENSITIVITY control allows adjustment of when music level is reduced during paging

DUCKING DEPTH control allows adjustment of when music level is reduced during paging

10) POWER SWITCH

Allows CSM device to be turned on and off from the front panel

CSM-21 REAR



CSM-32 REAR

1) POWER CONNECTOR

For use with included CSM power supply

2) FIRMWARE UPDATE PORT

USB port for firmware updates

3) ZONE OUTPUTS

Stereo or mono operation

Connect to CS Series CSA Amplifiers and CSS Loudspeakers.

Active crossover for subwoofer with dedicated output

4) AUTOWARMTH™ CONTROLS

Ensures full fidelity at all volume levels
LED provides guidance for setup

5) ZONE REMOTE PORTS

Allow connection of remote wall plates via inexpensive Cat. 5 cable for source selection and/or volume control within zones

6) MUSIC MUTE

Allows source inputs to be muted by a contact closure

7) DIRECT INPUT

An input routed to all zones for 'all-call' purposes

GAIN control allows adjustment for **DIRECT INPUT**

8) PRIORITY HOLD

Adjusts the time taken to fade back to the normal input source after the priority source stops

9) INPUT SECTION

Left and Right RCA inputs

GAIN control allows adjustment of source levels for consistency among sources

SIGNAL / CLIP LED provides guidance for **GAIN** control adjustment and general monitoring

10) LINK PORTS

Allow multiple CSM devices to be linked to increase the number of output zones, Linking CSM devices shares sources from the main device and eliminates the requirement for Y-cables

11) MICROPHONE INPUT SECTION

Balanced microphone input

GAIN control allows adjustment of microphone level
SIGNAL / CLIP LED provides guidance

for **GAIN** control adjustment and general monitoring

12) ISO AUX OUT

Transformer-isolated output for music-on-hold systems or additional music-only mono output

AUX LEVEL control allows adjustment of transformer-isolated output

13) PAGE ASSIGN

Routes pages to the desired zone(s) by contact closures

JBL Commercial CS Series Public Address Mixers

The CS Series CSM Public Address Mixers represent affordable, professional business music processing solutions for simple background music and paging applications. The mixers can be configured for a range of uses such as paging, background music, and security applications, do not require a computer for configuration and are designed with simple analog-style controls. An included security plate can be placed over the controls to avoid uninvited changes to a commissioned system. Three wall controllers are available for the CSM devices, which offer volume control and source selection from convenient remote locations. Further information about the CS Series family of products, including the CSA Amplifiers and the CSS Loudspeakers, can be found at www.jblcommercialproducts.com

	STEREO SOURCE INPUTS	PAGING MICROPHONE INPUT	DIRECT INPUT	STEREO ZONE OUTPUTS	DEDICATED SUBWOOFER OUTPUT	MUSIC-ON-HOLD OUTPUT	STEREO / MONO OPERATION	MUSIC MUTE	PAGE ASSIGN
CSM-21	2	✓	✓	1	✓		✓	✓	✓
CSM-32	3	✓	✓	2	✓	✓	✓	✓	✓

ACCESSORIES

UNITED STATES



CSR-V

- Available in US or EU Form Factor
- Available in Black or White Color
- Volume Control
- RJ-45 / Cat. 5 Connection
- Up to 1000' (305m) from CSM device



CSR-2SV

- Available in US or EU Form Factor
- Available in Black or White Color
- Volume Control
- Source Selection (2 Sources)
- RJ-45 / Cat. 5 Connection
- Up to 1000' (305m) from CSM device



CSR-3SV

- Available in US or EU Form Factor
- Available in Black or White Color
- Volume Control
- Source Selection (3 Sources)
- RJ-45 / Cat. 5 Connection
- Up to 1000' (305m) from CSM device

EUROPEAN



CSPM-1

- 1-Zone Paging Microphone
- Push to Talk Button



CSPM-2

- 2-Zone Paging Microphone
- 2 Zone Select Buttons
- Push to Talk Button



CSPM-4

- 4-Zone Paging Microphone
- 4 Zone Select Buttons
- Push to Talk Button

Section:
07



8760 South Sandy Parkway
Sandy, Utah 84070
801.566.8800



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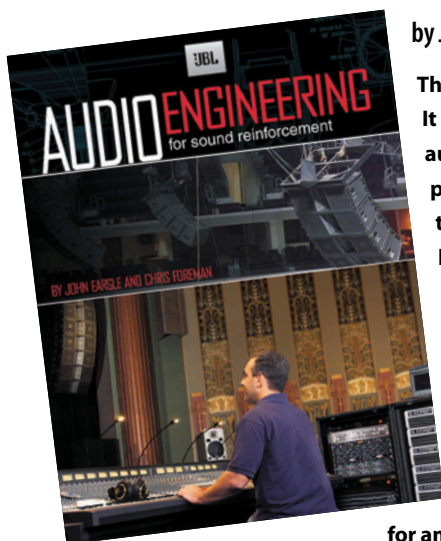


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JBL AUDIO ENGINEERING FOR SOUND REINFORCEMENT

by John Eargle and Chris Foreman



This book comprehensively covers all aspects of speech and music sound reinforcement. It is divided into four sections: Section 1 provides the tutorial fundamentals that all audio engineers will need, discussing subjects such as fundamentals of acoustics, psychoacoustics, basic electrical theory and digital processing. Section 2 deals with the fundamental classes of hardware that the modern engineer will use, such as loudspeaker systems and components, microphones, mixers, amplifiers and signal processors. Special attention is given to digital techniques for system control and to audio signal analysis. Section 3 deals with the basics of system design, from concept to final realization. It covers topics such as basic system type and speech intelligibility, site survey, user needs analysis and project management. Section 4 discusses individual design areas, such as sports facilities, large-scale tour sound systems, high-level music playback, systems for the theater, religious facilities, and other meeting spaces. The book is written in an accessible style, but does not lack for ample amounts of technical information. JBL and HPro brand products are prominently featured as examples to illustrate the principles and applications. Available at bookstores and on line.

JBL LIMITED WARRANTY

The JBL Warranty on professional loudspeaker products (except for enclosures) remains in effect for five years from the date of the first consumer purchase. JBL amplifiers are warranted for three years from the date of the original purchase. Enclosures and all other JBL products are warranted for two years from the date of the original purchase.

Your JBL Warranty protects the original owner and all subsequent owners as long as: A.) Your JBL product has been purchased in the Continental United States, Hawaii or Alaska. (This Warranty does not apply to JBL products purchased elsewhere except for purchases by military outlets. Other purchasers should contact the local JBL distributor for warranty information.) and B.) The original dated bill of sale is presented whenever warranty service is required.

Except as specified below, your JBL Warranty covers all defects in material and workmanship. The following are not covered: Damage caused by accident, misuse, abuse, product modification or neglect; damage occurring during shipment; damage resulting from failure to follow instructions contained in your Instruction Manual; damage resulting from the performance of repairs by someone not authorized by JBL; claims based upon any misrepresentations by the seller; any JBL product on which the serial number has been defaced, modified or removed. JBL will pay all labor and material expenses for all repairs covered by this warranty.

JBL continually engages in research related to product improvement. New materials, production methods and design refinements are introduced into existing products without notice as a routine expression of that philosophy. For this reason, any current JBL product may differ in some respect from its published description but will always equal or exceed the original design specifications unless otherwise stated.

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